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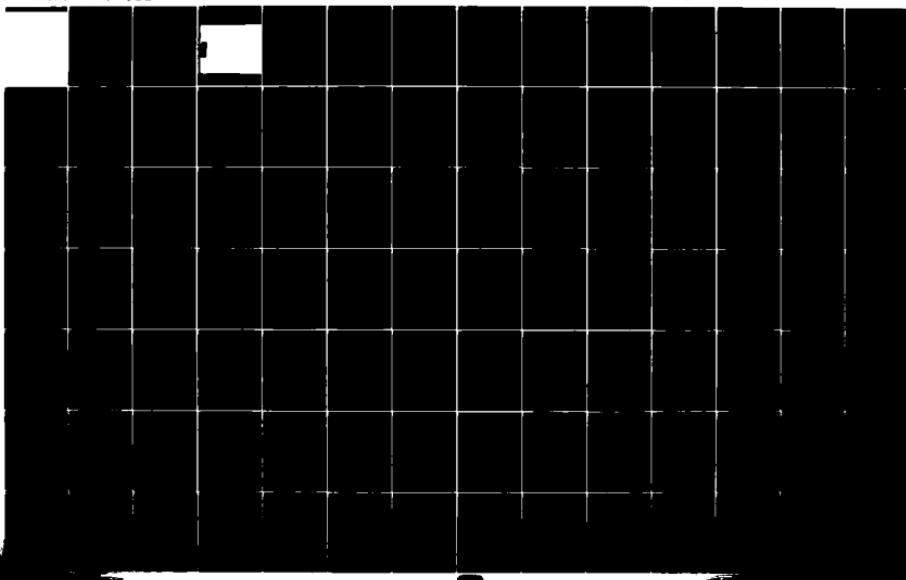
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
ROTA SPAIN(U) NAVAL OCEANOGRAPHY COMMAND DETACHMENT  
ASHEVILLE NC SEP 84

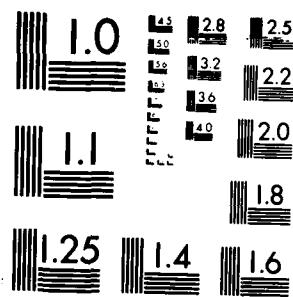
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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS 1962

**AD-A150 345**

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INVENTORY

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Sep 1984

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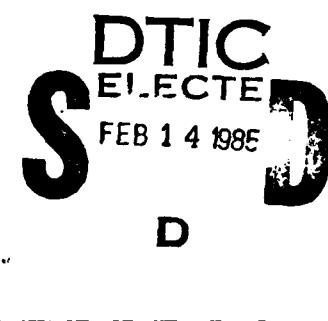
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| <b>REPORT DOCUMENTATION PAGE</b>  |                       | <b>READ INSTRUCTIONS BEFORE COMPLETING FORM</b>                      |
|---|-----------------------|--|
| 1. REPORT NUMBER  | 2. GOVT ACCESSION NO. | 3. RECIPIENT'S CATALOG NUMBER  |
| 4. TITLE (and Subtitle)<br><br>Summary of Meteorological Observations, Surface<br>(SMOS) Rota, Spain  |                       | 5. TYPE OF REPORT & PERIOD COVERED<br><br>Reference Report 1973-1982 |
| 7. AUTHOR(s)<br><br>NA  |                       | 6. PERFORMING ORG. REPORT NUMBER                                     |
| 9. PERFORMING ORGANIZATION NAME AND ADDRESS<br><br>Naval Oceanography Command Detachment<br>Federal Building<br>Asheville, NC 28801   |                       | 10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS          |
| 11. CONTROLLING OFFICE NAME AND ADDRESS<br><br>Commanding Officer<br>Naval Oceanography Command Facility<br>NSTL, MS 39529-5002   |                       | 12. REPORT DATE<br><br>September 1984                                |
| 14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)   |                       | 13. NUMBER OF PAGES<br><br>358                                       |
|   |                       | 15. SECURITY CLASS. (of this report)<br><br>Unclassified             |
|   |                       | 15a. DECLASSIFICATION/DOWNGRADING SCHEDULE                           |
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| 17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)  |                       |  |
| 18. SUPPLEMENTARY NOTES   |                       |  |
| 19. KEY WORDS (Continue on reverse side if necessary and identify by block number)<br><br>Climatology, surface wind, temperature, precipitation, ceiling, visibility, relative humidity, station pressure, extreme temperatures, sea level pressure, daily temperature, weather conditions, monthly climatology, coastal region, snow depth, and cloud cover  |                       |  |
| 20. ABSTRACT (Continue on reverse side if necessary and identify by block number)<br><br>This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure |                       |  |

## SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

This update includes the period of record (POR) 1973 through 1982, with all available data through 1982 for extreme values.

This summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as those record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of "0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Oceanography Command Detachment (NOCD), Asheville, N.C. welcomes your comment and criticisms.

| STATION NO OR SUMMARY | STATION NAME | LATITUDE | LONGITUDE | STATION ELEV (FT) | CALL SIGN | WMO NUMBER |
|-----------------------|--------------|----------|-----------|-------------------|-----------|------------|
| 13025                 | Rota, Spain  | 36°39'N  | 06°21'W   | 86                | LERT      | 08449      |

### STATION LOCATION AND INSTRUMENTATION HISTORY

| NUMBER<br>OF<br>LOCATION | GEOGRAPHICAL LOCATION & NAME               | TYPE<br>OF<br>STATION | AT THIS LOCATION |      | LATITUDE | LONGITUDE | ELEVATION ABOVE MSL |                | DEP<br>ELE<br>LST |
|--------------------------|--|-----------------------|------------------|------|----------|-----------|---------------------|----------------|-------------------|
|                          |  |                       | FROM             | TO   |          |           | FEET                | TYPE BAROMETER |                   |
| 1.                       | South bulkhead in weather clearance office | Navy                  | 1958             | 1966 | 36°39'N  | 06°21'W   | 88                  | Mercurial      | 24                |
| 2.                       | North bulkhead in weather clearance office | "                     | 1966             | 1970 | "        | "         | 99                  | "              | 24                |
| 3.                       | West bulkhead in weather clearance office  | "                     | 1971             | 1973 | "        | "         | 99                  | "              | 24                |
| 1a.                      | North bulkhead in weather clearance office | "                     | 1966             | 1969 | "        | "         | 101                 | Aneroid        | 24                |
| 2a.                      | West bulkhead in weather clearance office  | "                     | 1969             |      | "        | "         | 101                 | "              | 24                |

| NUMBER<br>OF<br>LOCATION | DATE<br>OF<br>CHANGE | SURFACE AND EQUIPMENT INFORMATION  |                        |                     |                    | REMARKS ADDITIONAL EQUIPMENT OR REASON FOR CHANGE  |
|--------------------------|----------------------|--|------------------------|---------------------|--------------------|--|
|                          |                      | LOCATION   | TYPE OF<br>TRANSMITTER | TYPE OF<br>RECORDER | HT ABOVE<br>GROUND |  |
| 1.                       | 1959                 | 645 feet south of the runway centerline and near the mid point between taxiway and parking apron | UMQ-5                  | RD-108              | 15'                | 1. Marine barograph<br>2. Auto met station (AN/GMQ-29)<br>3. Ceiling light (ML-121)<br>4. Cloud height set (AN/GMQ-13B)<br>5. Theodolite (ML-247)<br>6. APT (AN/GKR-4) |
| 2.                       | 1977                 | 750 feet north of the runway centerline and 900 feet east of the TACAN trailer                   | "                      | AN/GMQ-29           | 15'                |  |

NWSO, Federal Building

NOCD, Federal Building  
Asheville, N. C.

## PART A

## WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total column. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than 5/8 mile.

Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency of occurrences.

## **WEATHER CONDITIONS**

**STATION** \_\_\_\_\_ **STATION NAME** \_\_\_\_\_ **YEARS** \_\_\_\_\_ **MOUTH** \_\_\_\_\_

4

## **WEATHER CONDITIONS**

**STATION**                    **STATION NAME**                    **YEARS**                    **MORTH**

## WEATHER CONDITIONS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND OR<br>DRIZZLE | FREEZING<br>RAIN & OR<br>DRIZZLE | SNOW<br>AND OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO OF<br>OBS |
|--------|-------------------|--------------------|---------------------------|----------------------------------|-------------------------|------|-----------------------------|-----|-------------------------|-----------------|------------------------|------------------------------------|-----------------------|
|        |                   |                    |                           |                                  |                         |      |                             |     |                         |                 |                        |                                    |                       |
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| TOTALS |                   |                    |                           |                                  |                         |      |                             |     |                         |                 |                        |                                    |                       |

## 4 WEATHER CONDITIONS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTHS \_\_\_\_\_

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & OR<br>DRIZZLE | SNOW<br>AND OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS |
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| TOTALS |                   |                    |                           |                                  |                         |      |                             |     |                         |                 |                        |                                    |                        |

## WEATHER CONDITIONS

| STATION | STATION NAME | YEARS | MONTH |
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|---------|--------------|-------|-------|

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO OF<br>OBS |
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## WEATHER CONDITIONS

| STATION | STATION NAME | YEARS | MONTH |
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|---------|--------------|-------|-------|

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN &/OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO OF<br>OBS |
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| TOTALS |                   |                    |                           |                                  |                         |      |                             |     |                         |                 |                        |                                    |                       |

## WEATHER CONDITIONS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTHS \_\_\_\_\_

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND OR<br>DRIZZLE | FREEZING<br>RAIN & OR<br>DRIZZLE | SNOW<br>AND OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS |
|--------|-------------------|--------------------|---------------------------|----------------------------------|-------------------------|------|-----------------------------|-----|-------------------------|-----------------|------------------------|------------------------------------|------------------------|
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| TOTALS |                   |                    |                           |                                  |                         |      |                             |     |                         |                 |                        |                                    |                        |

## WEATHER CONDITIONS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & OR<br>DRIZZLE | SNOW<br>AND OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO OF<br>OBS |
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| TOTALS |                   |                    |                           |                                  |                         |      |                             |     |                         |                 |                        |                                    |                       |

## WEATHER CONDITIONS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND OR<br>DRIZZLE | FREEZING<br>RAIN & OR<br>DRIZZLE | SNOW<br>AND OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG | SMOKE<br>AND OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO OF<br>OBS |
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| TOTALS |                   |                    |                           |                                  |                         |      |                             |     |                         |                 |                        |                                    |                       |

## **WEATHER CONDITIONS**

## WEATHER CONDITIONS

**STATION** \_\_\_\_\_ **STATION NAME** \_\_\_\_\_ **YEARS** \_\_\_\_\_ **MONTH** \_\_\_\_\_

## WEATHER CONDITIONS

## WEATHER CONDITIONS

**STATION** \_\_\_\_\_ **STATION NAME** \_\_\_\_\_ **YEARS** \_\_\_\_\_ **MONTH** \_\_\_\_\_

## WEATHER CONDITIONS

4  
PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

| WIND DIRECTION               | RAIN | RAIN SHOWERS | DRIZZLE | FREEZING RAIN    | SLEET SHOWERS | SNOW                     | HAIL       | THUNDER | FOG | GROUND FOG | SUN HAZE | SHADING AND CLOUDS |
|------------------------------|------|--------------|---------|------------------|---------------|--------------------------|------------|---------|-----|------------|----------|--------------------|
|                              |      |              |         | FREEZING DRIZZLE | ICE CRYSTALS  | GRANULES PELLETS SHOWERS | SMALL HAIL |         |     |            |          |                    |
| N                            | 7.0  | 2.0          |         |                  |               |                          |            |         | 2.0 | 5.3        | 0.9      | 75.0               |
| NNE                          | 1.0  | .5           |         |                  |               |                          |            |         | 1.2 | 5.6        | 7.9      | 57.1               |
| NE                           | 0.7  |              |         |                  |               |                          |            |         | 0.6 | 7.0        | 3.4      | 79.0               |
| ENE                          | 1.0  | 1.4          |         |                  |               |                          |            |         | 0.7 | 12.5       | 6.3      | 77.1               |
| E                            | 0.3  | 1.5          | .8      |                  |               |                          |            |         | 0.1 | 11.0       | 5.7      | 74.3               |
| ESE                          | 0.7  | 2.1          | .7      |                  |               |                          |            |         | 0.2 | 2.3        | 2.1      | 31.7               |
| SE                           | 12.0 | 1.1          |         |                  |               |                          |            |         | 0.6 | 2.2        | 7.1      | 57.0               |
| SSE                          | 0.1  | 7.8          |         |                  |               |                          |            |         | 0.9 | 7.1        | 6.3      | 85.0               |
| S                            | 5.4  | 0.6          | .9      |                  |               |                          |            |         | 0.2 | 11.0       | 4.4      | 51.6               |
| SSW                          | 1.0  | 3.7          | 1.0     |                  |               |                          |            | 1.0     | 2.2 | 10.6       | 5.8      | 52.0               |
| SW                           | 13.0 | 8.3          | 1.5     |                  |               |                          |            |         | 0.1 | 6.8        | 7.6      | 61.4               |
| WSW                          | 0.4  | 4.7          | 3.4     |                  |               |                          |            |         | 0.1 | 2.0        | 2.7      | 72.7               |
| W                            | 0.0  | 4.4          | 1.1     |                  |               |                          |            |         | 0.3 | 2.2        | 5.5      | 71.0               |
| WNW                          | 1.0  | 0.9          |         |                  |               |                          |            |         | 1.7 | 1.7        | 6.1      | 47.5               |
| NW                           | 0.0  | 0.6          |         |                  |               |                          |            |         | 1.7 | 1.2        | 5.3      | 52.0               |
| NNW                          | 0.1  | .3           |         |                  |               |                          |            |         | 1.7 | 0.8        | 4.1      | 61.7               |
| VARIABLE                     |      |              |         |                  |               |                          |            |         |     |            |          |                    |
| CALM                         |      |              |         |                  |               |                          |            |         |     | 6.4        | 4.5      | 75.0               |
| TOTAL                        | 14   | 68           | 15      |                  |               |                          | 1          |         | 117 | 145        | 153      | 1.67               |
| % TOTAL                      | 2.0  | 2.7          | .6      |                  |               |                          | 0.1        |         | 4.7 | 5.8        | 6.2      | 76.0               |
| TOTAL NUMBER OF OBSERVATIONS |      |              |         |                  |               |                          |            |         |     |            |          |                    |
| 294                          |      |              |         |                  |               |                          |            |         |     |            |          |                    |

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

12 1970, SEP'T

SATION

~~STAT ON NAME~~

W-111-A - 1971-0 COM PT 1979 STANZA X

| WIND<br>DIRECTION | RAIN | RAIN<br>SHOWERS | DRIZZLE | FREEZING<br>RAIN | SLEET | SNOW | PELLETS | HAIL | THUNDER | HAILSTORM | WIND<br>FORCE | WIND<br>GUST | TEMPERATURE | PRESSURE | RH (%) | VISIBILITY | SKY | WEATHER |
|-------------------|------|-----------------|---------|------------------|-------|------|---------|------|---------|-----------|---------------|--------------|-------------|----------|--------|------------|-----|---------|
|                   |      |                 |         |                  |       |      |         |      |         |           |               |              |             |          |        |            |     |         |
| N                 |      |                 |         |                  |       |      |         |      |         |           | 7             | 7.4          | 6           |          |        |            |     |         |
| NNE               | .    |                 |         |                  |       |      |         |      |         |           | 1             | 6.7          |             |          |        |            |     |         |
| NE                | .    |                 |         |                  |       |      |         |      |         |           | 2             | 6.6          | 6           |          |        |            |     |         |
| ENE               | .    |                 |         |                  |       |      |         |      |         |           | 3             | 4.5          | 7.3         |          |        |            |     |         |
| E                 | .    |                 |         |                  |       |      |         |      |         |           | 3             | 4.4          | 4.9         |          |        |            |     |         |
| ESE               | .    |                 |         |                  |       |      |         |      |         |           | 4             | 3.1          | 2.3         |          |        |            |     |         |
| SE                | .    | 1.5             |         |                  |       |      |         |      |         |           | 5             | 3.1          | 4.7         |          |        |            |     |         |
| SSE               | 7.   |                 |         |                  |       |      |         |      |         |           | 6             | 5.1          | 14.4        |          |        |            |     |         |
| S                 | 1.7  | 6               |         |                  |       |      |         |      |         |           | 7             | 2.2          | 1.1         |          |        |            |     |         |
| SSW               | 7.   | 7.6             | 1.3     |                  |       |      |         |      |         |           | 8             | 5.0          | 21.3        |          |        |            |     |         |
| SW                | 4.   | 5.2             | 4.5     |                  |       |      |         |      |         |           | 9             | 6.7          | 10.4        |          |        |            |     |         |
| WSW               | .    | 4.7             | 1.6     |                  |       |      |         |      |         |           | 10            | 1.0          | 8.2         |          |        |            |     |         |
| W                 | .    | 2.7             | 0.5     |                  |       |      |         |      |         |           | 11            | 0.8          | 1.8         |          |        |            |     |         |
| WNW               | .    | 2.6             |         |                  |       |      |         |      |         |           | 12            | 0.7          | 1.2         |          |        |            |     |         |
| NW                | .    | 0.7             |         |                  |       |      |         |      |         |           | 13            | 0.7          | 1.7         |          |        |            |     |         |
| NNW               | .    |                 |         |                  |       |      |         |      |         |           | 14            | 1.0          | 3.5         |          |        |            |     |         |
| VARIABLE          |      |                 |         |                  |       |      |         |      |         |           |               |              |             |          |        |            |     |         |
| CALM              | X    | X               | X       | X                | X     | X    | X       | X    | X       | X         | X             | X            | X           | X        | X      | X          | X   |         |
| TOTAL             | 1    | 4.5             | 11      |                  |       |      |         |      |         |           | 118           | 5            | 115         |          |        |            |     |         |
| % TOTAL           | 4.   | 2.1             | 5       |                  |       |      |         |      |         |           | 5.2           | 2.7          | 5.1         |          |        |            |     |         |

**TOTAL NUMBER OF OBSERVATIONS**

NAVWEASERV.COM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

JULY 1970 - JULY 1972

| WIND DIRECTION | RAIN | RAIN SHOWERS | DRIZZLE | FREEZING RAIN | SLEET | SNOW | HAIL | ICE CRYSTALS | DRAMS | PELLETS | SMALL SHOVELS | LARGE SHOVELS | ICE CRYSTALS | DRIZZLE | PELLETS | SMALL SHOVELS | LARGE SHOVELS |
|----------------|------|--------------|---------|---------------|-------|------|------|--------------|-------|---------|---------------|---------------|--------------|---------|---------|---------------|---------------|
| N              | .    | 7            |         |               |       |      |      |              |       |         |               |               |              |         |         |               | 7.4           |
| NNE            | .    |              |         |               |       |      |      |              |       |         |               |               |              |         |         | 2.4           | 12.7          |
| NE             | 2.   | 1.6          |         |               |       |      |      |              |       |         |               |               |              |         |         | 2.            | 0.5           |
| ENE            | 1.   | 2.1          |         |               |       |      |      |              |       |         |               |               |              |         |         | 7.3           | 7             |
| E              |      |              |         |               |       |      |      |              |       |         |               |               |              |         |         | 7.3           | 4.1           |
| ESE            | .    | 1.1          |         |               |       |      |      |              |       |         |               |               |              |         |         | 1.1           | 10.3          |
| SE             | 1.   | 1.4          |         |               |       |      |      |              |       |         |               |               |              |         |         | 1.1           | 11.6          |
| SSE            | .    | 3.1          |         |               |       |      |      |              |       |         |               |               |              |         |         | 3             | 5.5           |
| S              | .    | 1.2          |         |               |       |      |      |              |       |         |               |               |              |         |         | 1.2           | 11.1          |
| SSW            | .    | 1.4          |         |               |       |      |      |              |       |         |               |               |              |         |         | 1.4           | 10.8          |
| SW             | .    | 7.1          |         |               |       |      |      |              |       |         |               |               |              |         |         | 1.2           | 4.7           |
| WSW            | .    | 1.2          |         |               |       |      |      |              |       |         |               |               |              |         |         | 1.2           | 5.0           |
| W              | .    | 2.7          |         |               |       |      |      |              |       |         |               |               |              |         |         | 2.7           | 4.0           |
| WNW            | .    | 2.1          |         |               |       |      |      |              |       |         |               |               |              |         |         | 2.1           | 1.4           |
| NW             | .    | 1.6          |         |               |       |      |      |              |       |         |               |               |              |         |         | 1.6           | 0.3           |
| NNW            | .    | 0.3          |         |               |       |      |      |              |       |         |               |               |              |         |         | 0.3           | 3.8           |
| VARIABLE       |      |              |         |               |       |      |      |              |       |         |               |               |              |         |         |               |               |
| CALM           |      |              |         |               |       |      |      |              |       |         |               |               |              |         |         |               |               |
| TOTAL          |      | 74           | 9       |               |       |      |      |              |       |         |               |               |              |         |         | 57            | 169           |
| % TOTAL        |      | 2.2          | 0.4     |               |       |      |      |              |       |         |               |               |              |         |         | 2.3           | 6.3           |

TOTAL NUMBER OF OBSERVATIONS

4

PERCENTAGE OF SUBJECTS WITH EACH OF THE REACTIONS  
TO A PARTICULAR DRUG

10.1.4.4. *Waste Management*

**PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS**

| WIND<br>DIRECTION            | RAIN | RAIN<br>SHOWERS | DRIZZLE | FREEZING<br>RAIN | FREEZING<br>DRIZZLE | SLEET<br>SHOWERS | SNOW<br>GRAINS<br>PELLETS<br>SHOWERS | HAIL<br>SMALL<br>HAIL | THUNDER | FOG | ICE FLOE<br>GROUND<br>FOG | SUMMER<br>FROST<br>AND<br>HAZE | WINTER<br>FROST<br>AND<br>HAZE |
|------------------------------|------|-----------------|---------|------------------|---------------------|------------------|--------------------------------------|-----------------------|---------|-----|---------------------------|--------------------------------|--------------------------------|
|                              | N    | 1.0             |         |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| NNE                          |      | 1.0             |         |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| NE                           | 1.0  |                 |         |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| ENE                          |      |                 |         |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| E                            | 1.0  | 1.0             |         |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| ESE                          | 1.0  | 1.0             |         |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| SE                           |      | 1.0             |         |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| SSE                          |      | 1.0             |         |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| S                            |      | 1.0             |         |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| SSW                          |      | 1.0             | 1.0     |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| SW                           |      | 1.0             | 1.0     |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| WSW                          |      | 1.0             | 1.0     |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| W                            |      | 1.0             | 1.0     |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| WNW                          |      | 1.0             | 1.0     |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| WW                           |      | 1.0             | 1.0     |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| NNW                          |      | 1.0             | 1.0     |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| VARIABLE                     |      |                 |         |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| ALM                          |      |                 |         |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |
| TOTAL                        | 71   | 41              | 7       |                  |                     |                  |                                      |                       |         | 31  | 24                        | 273                            | 211                            |
| % TOTAL                      | 1.0  | 1.0             | 0.3     |                  |                     |                  |                                      |                       |         | 1.3 | 1.0                       | 9.4                            | 9.4                            |
| TOTAL NUMBER OF OBSERVATIONS |      |                 |         |                  |                     |                  |                                      |                       |         |     |                           |                                |                                |

4  
PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

| WIND DIRECTION | RAIN | RAIN SHOWERS | DRIZZLE | FREEZING RAIN<br>FREEZING DRIZZLE | SLEET<br>ICE CRYSTALS | SNOW<br>GRANULES<br>PELLETS<br>SHOWERS | HAIL<br>SMALL HAIL | THUNDER | FOG | ICE FOG<br>DRIZZLE FOG | SMOKE | BLOWING<br>DRIFTING SNOW | BLIZZARD | WIND<br>WHISTLING | WIND<br>WHISTLING |     |
|----------------|------|--------------|---------|-----------------------------------|-----------------------|--|--------------------|---------|-----|------------------------|-------|--------------------------|----------|-------------------|-------------------|-----|
|                |      |              |         |                                   |                       |  |                    |         |     |                        |       |                          |          |                   |                   |     |
| N              | .    | .            | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| NNE            | .    | .            | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| NE             | .    | .            | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| ENE            | .    | .            | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| E              | .    | .            | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| ESE            | 1.   | 7.           | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| SE             | .    | .            | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| SSE            | 2.   | .            | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| S              | 1.   | .            | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| SSW            | 2.   | 2.           | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| SW             | 1.   | 1.           | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| WSW            | 2.   | 2.           | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| W              | 1.   | 1.           | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| WNW            | 1.   | 2.           | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| NW             | 1.   | .            | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| NNW            | .    | .            | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| VARIABLE       | .    | .            | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| CALM           | .    | .            | .       | .                                 | .                     | .                                      | .                  | .       | .   | .                      | .     | .                        | .        | .                 | .                 | .   |
| TOTAL          | .    | .            | 1       | .                                 | .                     | .                                      | .                  | 1       | 1   | 4.3                    | 1     | 4.6                      | .        | 1                 | 1                 | 1   |
| % TOTAL        | .    | 1.2          | .       | .                                 | .                     | .                                      | .                  | 1.4     | 1.3 | 1.6                    | 1.4   | 1.4                      | .        | 1.4               | 1.4               | 1.4 |

TOTAL NUMBER OF OBSERVATIONS

2,400

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION: 1370-0-CEM-ER 1279      MONTH: JULY

| WIND DIRECTION | RAIN | RAIN SHOWERS | DRIZZLE | FREEZING RAIN | SLEET | SNOW | HAIL | ICE CRYSTALS | GRANULES | PELLETS | SHOVELS | HALF HAIL | THUNDER | RUMBLE | ICE FOG | GROUND FOG | SMALL HAIL | RAIN | WIND | WEATHER |
|----------------|------|--------------|---------|---------------|-------|------|------|--------------|----------|---------|---------|-----------|---------|--------|---------|------------|------------|------|------|---------|
| N              |      |              |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 1.3  | 6.7  |         |
| NNE            |      |              |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 17.6 | 2.1  |         |
| NE             |      |              |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 30.8 | 0.4  |         |
| ENE            |      |              |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 6.0  | 2.7  |         |
| E              |      |              |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 2.4  | 17.2 |         |
| ESE            |      | 1.1          |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 1.1  | 7.3  |         |
| SE             |      |              |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 1.3  | 5.5  |         |
| SSE            |      |              |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 2.0  | 6.2  |         |
| S              |      | 1.2          |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 2.6  | 0.9  |         |
| SSW            |      | 1.1          | 1.1     |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 1.1  | 34.5 |         |
| SW             |      |              |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 24.3 | 6.2  |         |
| WSW            |      |              |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 1.4  | 27.5 |         |
| W              |      |              |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 2.7  | 21.6 |         |
| WNW            |      |              |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 1.1  | 1.1  |         |
| NW             |      |              |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 1.4  | 0.4  |         |
| NNW            |      |              |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 1.1  | 39.9 |         |
| VARIABLE       |      |              |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            |      |      |         |
| CALM           |      |              |         |               |       |      |      |              |          |         |         |           |         |        |         |            |            |      |      |         |
| TOTAL          |      | 6            | 1       |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 8    | 31   | 69.1    |
| ** TOTAL       | *    | 0.2          | 0.2     |               |       |      |      |              |          |         |         |           |         |        |         |            |            | 1.3  | 18.8 | 77.0    |

TOTAL NUMBER OF OBSERVATIONS

2,411

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

**TOTAL NUMBER OF OBSERVATIONS**

二、四七

[NAYWEASERY.COM](http://NAYWEASERY.COM)

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

17476

STATION NO. 5011, 5011 STATION NAME: ST. LOUIS, MO. LAT. 38° 45' N. LONG. 90° 15' W. ALT. 600 FT. 1970-71 CENSUS 1970 5011

| WIND<br>DIRECTION | RAIN | RAIN<br>SHOWERS | DRIZZLE | FREEZING<br>RAIN | SLEET | SNOW | GRAN-<br>ULES | SH. AIRPS | WIND<br>GUSTS | WIND<br>DIRECTION | WIND<br>GUSTS | WIND<br>DIRECTION | WIND<br>GUSTS |
|-------------------|------|-----------------|---------|------------------|-------|------|---------------|-----------|---------------|-------------------|---------------|-------------------|---------------|
| N                 | .    | .               | .       | .                | .     | .    | .             | .         | .             | .                 | .             | .                 | .             |
| NNE               | .    | .               | .       | .                | .     | .    | .             | .         | .             | .                 | .             | .                 | 10.1          |
| NE                | .    | .               | .       | .                | .     | .    | .             | .         | .             | .                 | .             | .                 | 10.6          |
| ENE               | .    | .               | .       | .                | .     | .    | .             | .         | .             | .                 | .             | .                 | 9.6           |
| E                 | .    | .               | .       | .                | .     | .    | .             | .         | .             | .                 | .             | .                 | 9.3           |
| ESE               | .    | .               | .       | .                | .     | .    | .             | .         | .             | .                 | .             | .                 | 2.5           |
| SE                | .    | 1.1             | .       | .                | .     | .    | .             | .         | .             | .                 | .             | .                 | 4.0           |
| SSE               | .    | .               | .       | .                | .     | .    | .             | .         | .             | .                 | .             | .                 | 14.1          |
| S                 | .    | .               | .       | .                | .     | .    | .             | .         | .             | .                 | .             | .                 | 7.2           |
| SSW               | .    | 7               | .       | .                | .     | .    | .             | .         | .             | .                 | .             | .                 | 7.6           |
| SW                | .    | .               | .       | .                | .     | .    | .             | .         | .             | .                 | .             | .                 | 6.2           |
| WSW               | .    | .               | .       | .                | .     | .    | .             | .         | .             | .                 | .             | .                 | 7.0           |
| W                 | .    | .               | .       | .                | .     | .    | .             | .         | .             | .                 | .             | .                 | 12.2          |
| WNW               | .    | .               | .       | .                | .     | .    | .             | .         | .             | .                 | .             | .                 | 5.1           |
| NW                | .    | .               | .       | .                | .     | .    | .             | .         | .             | .                 | .             | .                 | 6.7           |
| NNW               | 1.   | .               | .       | .                | .     | .    | .             | .         | .             | .                 | .             | .                 | 9.8           |
| VARIABLE          |      |                 |         |                  |       |      |               |           |               |                   |               |                   |               |
| CALM              |      |                 |         |                  |       |      |               |           |               |                   |               |                   |               |
| TOTAL             |      | 2               | 1       |                  |       |      |               |           | 10            | 32                | 77            | 751               |               |
| % TOTAL           | .    | .               | .       |                  |       |      |               |           | 6             | 1.3               | 1.1           | 10.5              |               |

**TOTAL NUMBER OF OBSERVATIONS**

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

DATE: 10/10/79 STATE: CALIFORNIA CITY: SAN FRANCISCO

| WIND DIRECTION | RAIN | RAIN SHOWERS | DRIZZLE | FREEZING RAIN<br>FREEZING DRIZZLE | SLEET<br>ICE | SNOW<br>PELLETS<br>CRYSTALS | HAIL | SMALL HAIL | MEDIUM HAIL | LARGE HAIL | GRANULES | FLURRIES | SPOTTED SNOW | BLIZZARD | WIND | WIND<br>VELOCITY | WIND<br>VELOCITY<br>MILES PER HOUR |
|----------------|------|--------------|---------|-----------------------------------|--------------|-----------------------------|------|------------|-------------|------------|----------|----------|--------------|----------|------|------------------|------------------------------------|
| N              | •    | 1.1          |         |                                   |              |                             | +    | +          | +           | +          |          |          |              |          | +    | 1.1              | 5.5                                |
| NNE            | •    | •            |         |                                   |              |                             | +    | +          | +           | +          | •        | •        | •            | •        | •    | 2.7              | 12.9                               |
| NE             | •    |              |         |                                   |              |                             |      | •          | •           | •          |          |          |              |          | •    | 3.1              | 14.6                               |
| ENE            | •    | •            |         |                                   |              |                             |      |            | 2.4         | 4.0        |          |          |              |          | 2.4  | 11.2             |                                    |
| E              | •    | 1.4          |         |                                   |              |                             |      |            | 2.8         | 4.6        |          |          |              |          | 2.8  | 12.2             |                                    |
| ESE            | •    | 2.1          |         |                                   |              |                             |      | •          | •           | •          | •        | •        | •            | •        | •    | 4.5              | 21.0                               |
| SE             | 1.0  | 3.0          |         |                                   |              |                             |      | •          | •           | •          | •        | •        | •            | •        | •    | 3.4              | 16.4                               |
| SSE            | •    | 2.1          |         |                                   |              |                             | +    | +          | +           | +          | •        | •        | •            | •        | 2.1  | 10.4             |                                    |
| S              | •    | 6.7          |         |                                   |              |                             | +    | +          | +           | +          | •        | •        | •            | •        | 1.5  | 12.2             |                                    |
| SSW            | •    | 2.7          |         |                                   |              |                             |      |            | 2.0         | 3.0        |          |          |              |          | 2.0  | 13.7             |                                    |
| SW             | •    | 4.3          |         |                                   |              |                             |      | •          | •           | •          | •        | •        | •            | •        | 1.1  | 7.4              |                                    |
| WSW            | •    | 5.1          |         |                                   |              |                             |      |            | •           | •          | •        | •        | •            | •        | 1.3  | 6.3              |                                    |
| W              | •    | 5.7          |         |                                   |              |                             |      |            | •           | •          | •        | •        | •            | •        | 1.3  | 7.7              |                                    |
| WNW            |      | 1.1          |         |                                   |              |                             |      |            |             |            |          |          |              |          | •    | 0.6              |                                    |
| NW             | •    | 2.1          |         |                                   |              |                             |      |            |             | •          | •        | •        | •            | •        | 2.1  | 10.6             |                                    |
| NNW            |      |              |         |                                   |              |                             |      |            |             |            |          |          |              |          | •    | 0.6              |                                    |
| VARIABLE       |      |              |         |                                   |              |                             |      |            |             |            |          |          |              |          |      |                  |                                    |
| CALM           |      |              |         |                                   |              |                             |      |            |             |            |          |          |              |          | 5.2  | 23.2             |                                    |
| TOTAL          |      | 63           |         |                                   |              |                             |      |            | 20          | 37         | 34       | 161      |              |          |      |                  | 214                                |
| ** TOTAL       |      | 267          |         |                                   |              |                             |      |            | 3           | 1.5        | 1.4      | 6.3      |              |          |      |                  | 36.6                               |

**TOTAL NUMBER OF OBSERVATIONS**

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

JULY 1979 - CAMP 1779 - 5000' ASL

| WIND DIRECTION | RAIN | RAIN SHOWERS | DRIZZLE | FREQUENT RAIN | FREQUENT DRIZZLE | WIND DIRECTION |        | CLOUDS | DE. ATC | TEMP. | WIND DIRECTION | CLOUDS | DE. ATC | TEMP. |
|----------------|------|--------------|---------|---------------|------------------|----------------|--------|--------|---------|-------|----------------|--------|---------|-------|
|                |      |              |         |               |                  | WIND DIRECTION | CLOUDS |        |         |       |                |        |         |       |
| N              | •    |              |         |               |                  |                |        |        |         |       |                |        |         |       |
| NNE            | •    | 1.5          |         |               |                  |                |        |        |         |       |                |        |         |       |
| NE             | •    | 1.0          |         |               |                  |                |        |        |         |       |                |        |         |       |
| ENE            | •    |              |         |               |                  |                |        |        |         |       |                |        |         |       |
| E              | •    | 1.5          |         |               |                  |                |        |        |         |       |                |        |         |       |
| ESE            | •    | 2.4          |         |               |                  |                |        |        |         |       |                |        |         |       |
| SE             | •    | 7.1          |         |               |                  |                |        |        |         |       |                |        |         |       |
| SSE            | •    | 4.4          |         |               |                  |                |        |        |         |       |                |        |         |       |
| S              | •    | 13.0         | 1.3     |               |                  |                |        |        |         |       |                |        |         |       |
| SSW            | •    | 5.7          |         |               |                  |                |        |        |         |       |                |        |         |       |
| SW             | •    |              |         |               |                  |                |        |        |         |       |                |        |         |       |
| WSW            | •    | 4.1          |         |               |                  |                |        |        |         |       |                |        |         |       |
| W              | •    | 6.6          |         |               |                  |                |        |        |         |       |                |        |         |       |
| WNW            | •    | 1.5          |         |               |                  |                |        |        |         |       |                |        |         |       |
| NW             | •    | 1.0          |         |               |                  |                |        |        |         |       |                |        |         |       |
| NNW            | •    | 1.0          |         |               |                  |                |        |        |         |       |                |        |         |       |
| VARIABLE       | •    |              |         |               |                  |                |        |        |         |       |                |        |         |       |
| CALM           | •    |              |         |               |                  |                |        |        |         |       |                |        |         |       |
| TOTAL          | 4    | 1            | 2       |               |                  |                |        | 11     | 70      | 83    | 174            |        | 017     |       |
| TOTAL          | 1.6  | 2.0          | 0.1     |               |                  |                |        | 2.0    | 1.9     | 7.5   |                |        | 1.9     |       |

TOTAL NUMBER OF OBSERVATIONS 240

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

JANUARY 1972 - C-M-FW 1972 - DECEMBER

| WIND DIRECTION               | RAIN | RAIN SHOWERS | DRIZZLE | FREEZING RAIN | SLEET | SNOW | DRAINS | HAIL | SMALL HAIL | THUNDER | FOG | ICE | PELLET | SHOWER | RUMBLE | ELECTRICAL | BLIZZARD | WIND | WIND |
|------------------------------|------|--------------|---------|---------------|-------|------|--------|------|------------|---------|-----|-----|--------|--------|--------|------------|----------|------|------|
| N                            | 1.4  | 1.1          |         |               |       |      |        |      |            |         | 1.3 | 1.6 |        |        |        |            |          |      |      |
| NNE                          | 1.1  | 1.3          |         |               |       |      |        |      |            |         | 1.3 | 1.3 |        |        |        |            |          |      |      |
| NE                           | 1.4  | 1.5          |         |               |       |      |        |      |            |         | 1.4 | 1.3 |        |        |        |            |          |      |      |
| ENE                          | 1.1  | 1.2          |         |               |       |      |        |      |            |         | 1.7 | 2.0 |        |        |        |            |          |      |      |
| E                            | 1.1  | 1.2          |         |               |       |      |        |      |            |         | 1.6 | 1.1 | 1.3    |        |        |            |          |      |      |
| ESE                          | 1.1  | 1.5          |         |               |       |      |        |      |            |         | 1.6 | 1.7 | 1.7    |        |        |            |          |      |      |
| SE                           | 1.1  | 1.1          |         |               |       |      |        |      |            |         | 2.0 | 1.1 | 1.1    |        |        |            |          |      |      |
| SSE                          | 1.1  | 1.3          |         |               |       |      |        |      |            |         | 1.9 | 1.6 | 1.4    | 1.4    |        |            |          |      |      |
| S                            | 1.1  | 1.1          |         |               |       |      |        |      |            |         | 1.2 | 1.0 | 1.1    | 1.1    |        |            |          |      |      |
| SSW                          | 1.1  | 1.2          |         |               |       |      |        |      |            |         | 1.0 | 1.6 | 1.6    | 1.1    |        |            |          |      |      |
| SW                           | 1.1  | 1.5          |         |               |       |      |        |      |            |         | 1.4 | 1.1 | 1.1    | 1.1    |        |            |          |      |      |
| WSW                          | 1.4  | 1.6          |         |               |       |      |        |      |            |         | 1.4 | 1.1 | 1.4    | 1.1    |        |            |          |      |      |
| W                            | 1.1  | 1.7          |         |               |       |      |        |      |            |         | 1.3 | 1.4 | 1.3    | 1.3    |        |            |          |      |      |
| WNW                          | 1.1  | 1.5          |         |               |       |      |        |      |            |         | 1.0 | 1.0 | 1.0    | 1.0    |        |            |          |      |      |
| NW                           | 1.1  | 2.3          |         |               |       |      |        |      |            |         | 1.1 | 1.1 | 1.3    | 1.3    |        |            |          |      |      |
| NNW                          | 1.1  | 1.1          |         |               |       |      |        |      |            |         | 0.6 | 0.6 | 0.5    | 0.5    |        |            |          |      |      |
| VARIABLE                     |      |              |         |               |       |      |        |      |            |         |     |     |        |        |        |            |          |      |      |
| CALM                         |      |              |         |               |       |      |        |      |            |         |     |     |        |        |        |            |          |      |      |
| TOTAL                        | 1.1  | 1.3          |         |               |       |      |        |      |            |         | 1.3 | 1.5 | 1.5    | 1.42   |        |            |          |      |      |
| TOTAL                        | 6    | 4.4          | .3      |               |       |      |        |      |            |         | .7  | 6.4 | 2.3    | 5.7    |        |            |          |      |      |
| TOTAL NUMBER OF OBSERVATIONS |      |              |         |               |       |      |        |      |            |         |     |     |        |        |        |            |          |      |      |

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION NAME: STATION 127-0 OEM 1270 L

| WIND DIRECTION | RAIN | RAIN SHOWERS | DRIZZLE | FREEZING RAIN | SLEET | SNOW | HAIL | THUNDER | RUMBLE | FLASHES | HAZE |
|----------------|------|--------------|---------|---------------|-------|------|------|---------|--------|---------|------|
| N              | .    | 1.7          | .1      |               |       |      |      |         | 1.0    | 2.8     | 5.8  |
| NNE            | 1.   | 0.7          | .1      |               |       |      |      |         | 2.0    | 2.6     | 7.8  |
| NE             | .    | 0.7          | .1      |               |       |      |      |         | 2.0    | 2.0     | 4.2  |
| ENE            | .    | 0.5          |         |               |       |      |      |         | 4.0    | 4.0     | 1.4  |
| E              | .    | 1.0          | .1      |               |       |      |      |         | 4.1    | 5.0     | 6.2  |
| ESE            | .    | 1.0          | .2      |               |       |      |      |         | 1.0    | 1.0     | 4.1  |
| SE             | .    | 2.7          | .1      |               |       |      |      |         | 1.0    | 1.0     | 7.0  |
| SSE            | .    | 3.3          | .1      |               |       |      |      |         | 0.1    | 2.0     | 14.8 |
| S              | .    | 0.5          | .1      |               |       |      |      |         | 0.1    | 2.4     | 10.5 |
| SSW            | .    | 0.3          | .1      |               |       |      |      |         | 1.3    | 4.6     | 20.3 |
| SW             | .    | 4.2          | .0      |               |       |      |      |         | 1.1    | 1.3     | 17.0 |
| WSW            | .    | 3.0          | .6      |               |       |      |      |         | 1.0    | 0.8     | 14.3 |
| W              | 1.   | 1.9          | .2      |               |       |      |      |         | 1.0    | 0.9     | 10.0 |
| WNW            | .    | 1.3          |         |               |       |      |      |         | 0.4    | 0.1     | 6.0  |
| NW             | .    | 1.3          | .2      |               |       |      |      |         | 1.0    | 1.0     | 4.0  |
| NNW            | .    | 0.7          | .1      |               |       |      |      |         | 1.0    | 0.8     | 5.0  |
| VARIABLE       |      |              |         |               |       |      |      |         |        |         |      |
| CALM           | X    | X            | X       | X             | X     | X    | X    | X       | X      | X       | X    |
| TOTAL          | 65   | 57           | 42      |               |       |      |      |         | 726    | 607     | 3029 |
| TOTAL          | 0.3  | 2.0          | 0.2     |               |       |      |      |         | 0.7    | 2.1     | 10.4 |

**TOTAL NUMBER OF OBSERVATIONS**

NAVWEASERV.COM

N.C. Federal Building  
Asheville, N.C.

## PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

B

|               |                                 |
|---------------|---------------------------------|
| PRECIPITATION | DERIVED FROM DAILY OBSERVATIONS |
| SNOWFALL*     | DERIVED FROM DAILY OBSERVATIONS |
| SNOW DEPTH    | DERIVED FROM DAILY OBSERVATIONS |

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

|  |                                      |                        |
|--|--------------------------------------|------------------------|
| Air Force Stations                     | From beginning of record thru 1945   | Snow depth at 0800 LST |
|  | Jan 46-May 57                        | Snow depth at 1230 GCT |
|  | Jun 57-present                       | Snow depth at 1200 GCT |
| U. S. Navy and Weather Bureau Stations | From beginning of record thru Jun 52 | Snow depth at 0030 GCT |
|  | Jul 52-May 57                        | Snow depth at 1230 GCT |
|  | Jun 57-present                       | Snow depth at 1200 GCT |

\* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956, and after Dec 1979.

## 4

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
(FROM DAILY OBSERVATIONS)

| STATION | STATION NAME |  |  |  |  |  |  |  |  |  |  |  | YEARS |  |  |  |  |
|---------|--------------|--|--|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|
|---------|--------------|--|--|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|

| PRECIP        | NONE | TRACE | AMOUNTS (INCHES) |      |      |      |      |       |       |        |         |         |          |           | PERCENT<br>OF DAYS<br>WITH<br>MEASUR.<br>ABLE<br>AMTS | TOTAL<br>NO<br>OF<br>OBS | MONTHLY AMOUNTS<br>(INCHES) |      |          |       |
|---------------|------|-------|------------------|------|------|------|------|-------|-------|--------|---------|---------|----------|-----------|---|--------------------------|-----------------------------|------|----------|-------|
|               |      |       | 01               | 02   | 03   | 06   | 10   | 11    | 25    | 26     | 50      | 51-100  | 101-250  | 251-500   | 501-1000  | 1001-2000                | 2001-Over 2000              | MEAN | GREATEST | LEAST |
| SNOWFALL      | NONE | TRACE | 0.04             | 0.14 | 1.24 | 2.34 | 3.54 | 4.56  | 4.64  | 6.5104 | 10.5154 | 15.5254 | 25.5504  | OVER 50.4 |   |                          |                             |      |          |       |
| SNOW<br>DEPTH | NONE | TRACE | 1                | 2    | 3    | 4.6  | 7.12 | 13.24 | 25.36 | 37.48  | 49.60   | 61.120  | OVER 120 |           |   |                          |                             |      |          |       |
| JAN           | *    | *     | *                | *    | *    | 7.65 | 10.7 | *     | *     | *      | *       | *       | *        | *         | *   | *                        | 14.4                        | 7.64 | 1.61     |       |
| FEB           | *    | *     | *                | 7.6  | 10.7 | 14.7 | 17   | 19.1  | 20.7  | 1.7    | 1.7     | 1.7     | 1.7      | 1.7       | 1.7   | 1.7                      | 6.7                         | 1.67 | 1.03     |       |
| MAR           | *    | *     | 1.6              | 1.6  | 1.6  | 1.6  | 1.6  | 1.6   | 1.6   | 1.6    | 1.6     | 1.6     | 1.6      | 1.6       | 1.6   | 1.6                      | 7.4                         | 1.63 | 1.04     |       |
| APR           | *    | *     | *                | *    | *    | 1.6  | 1.6  | 1.6   | 1.6   | 1.6    | 1.6     | 1.6     | 1.6      | 1.6       | 1.6   | 1.6                      | 2.0                         | 1.6  | 1.6      |       |
| MAY           | *    | *     | 1.6              | 1.6  | 1.6  | 1.6  | 1.6  | 1.6   | 1.6   | 1.6    | 1.6     | 1.6     | 1.6      | 1.6       | 1.6   | 1.6                      | 1.64                        | 1.6  | 1.02     |       |
| JUN           | *    | *     | 1.6              | 1.6  | 1.6  | 1.6  | 1.6  | 1.6   | 1.6   | 1.6    | 1.6     | 1.6     | 1.6      | 1.6       | 1.6   | 1.6                      | 1.64                        | 1.6  | 1.02     |       |
| JUL           | *    | *     | *                | *    | *    | 1.6  | 1.6  | *     | *     | *      | *       | *       | *        | *         | *   | *                        | 1.6                         | 1.6  | 1.6      |       |
| AUG           | *    | *     | *                | 1.6  | 1.6  | 1.6  | 1.6  | 1.6   | 1.6   | 1.6    | 1.6     | 1.6     | 1.6      | 1.6       | 1.6   | 1.6                      | 1.6                         | 1.6  | 1.6      |       |
| SEP           | *    | *     | *                | *    | *    | 1.6  | 1.6  | 1.6   | 1.6   | 1.6    | 1.6     | 1.6     | 1.6      | 1.6       | 1.6   | 1.6                      | 1.6                         | 1.6  | 1.6      |       |
| OCT           | *    | *     | 1.6              | 1.6  | 1.6  | 1.6  | 1.6  | 1.6   | 1.6   | 1.6    | 1.6     | 1.6     | 1.6      | 1.6       | 1.6   | 1.6                      | 1.65                        | 1.6  | 1.02     |       |
| NOV           | *    | *     | 1.6              | 1.6  | 1.6  | 1.6  | 1.6  | 1.6   | 1.6   | 1.6    | 1.6     | 1.6     | 1.6      | 1.6       | 1.6   | 1.6                      | 1.6                         | 1.6  | 1.6      |       |
| DEC           | *    | *     | *                | 1.6  | 1.6  | 1.6  | 1.6  | 1.6   | 1.6   | 1.6    | 1.6     | 1.6     | 1.6      | 1.6       | 1.6   | 1.6                      | 1.6                         | 1.6  | 1.6      |       |
| ANNUAL        | *    | *     | 1.6              | 1.6  | 1.6  | 1.6  | 1.6  | 1.6   | 1.6   | 1.6    | 1.6     | 1.6     | 1.6      | 1.6       | 1.6   | 1.6                      | 1.61                        | 1.6  | 1.02     |       |

# DAILY AMOUNTS

## PERCENTAGE FREQUENCY OF (FROM DAILY OBSERVATIONS)

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## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
(FROM DAILY OBSERVATIONS)

**STATION**

STATION NAME

YEARS

NAVAL WEATHER SERVICE DETACHMENT  
ASHVILLE NORTH CAROLINA

EXTREME VALUES

STATION NAME: ASHVILLE, NORTH CAROLINA YEARS: 1948-1957

| MONTH        | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | MEAN |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1948         |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1949         |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1950         |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1951         |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1952         |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1953         |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1954         |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1955         |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1956         |     |     |     |     |     |     |     |     |     |     |     |     |      |
| 1957         |     |     |     |     |     |     |     |     |     |     |     |     |      |
| MEAN         |     |     |     |     |     |     |     |     |     |     |     |     |      |
| STD. DEVI.   |     |     |     |     |     |     |     |     |     |     |     |     |      |
| TOTAL COUNTS |     |     |     |     |     |     |     |     |     |     |     |     |      |

SDS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## EXTREME VALUES

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

The figure is a scatter plot with a grid background. The horizontal axis is labeled 'MONTH' at the top left and 'YEAR' at the top center. The vertical axis has three labels at the bottom: 'MEAN', 'SD', and 'TOTAL OPS'. The plot area is filled with numerous small black dots, representing individual data points for each month and year combination.

SNIOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## EXTREME VALUES

#### FROM DAILY OBSERVATIONS

STATION

**STATION NAME**

YEARS

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

**EXTREME VALUES**

ONE FALL  
(FROM DAILY OBSERVATIONS)

STATION

STATION NAME

YEARS

24-HOUR AMOUNTS IN INCHES  
MAILED ON LESS THAN FULL MONTHS

| MONTH<br>YEAR | JAN. | FEB. | MAR. | APR. | MAY | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC | ALL<br>MONTHS |
|---------------|------|------|------|------|-----|------|------|------|------|------|------|-----|---------------|
|               |      |      |      |      |     |      |      |      |      |      |      |     | ONE FALL      |
|               |      |      |      |      |     |      |      |      |      |      |      |     | ONE FALL      |
|               |      |      |      |      |     |      |      |      |      |      |      |     | ONE FALL      |
|               |      |      |      |      |     |      |      |      |      |      |      |     | ONE FALL      |
|               |      |      |      |      |     |      |      |      |      |      |      |     | ONE FALL      |
|               |      |      |      |      |     |      |      |      |      |      |      |     | ONE FALL      |
|               |      |      |      |      |     |      |      |      |      |      |      |     | ONE FALL      |
|               |      |      |      |      |     |      |      |      |      |      |      |     | ONE FALL      |
|               |      |      |      |      |     |      |      |      |      |      |      |     | ONE FALL      |
|               |      |      |      |      |     |      |      |      |      |      |      |     | ONE FALL      |
| MEAN          |      |      |      |      |     |      |      |      |      |      |      |     |               |
| S D           |      |      |      |      |     |      |      |      |      |      |      |     |               |
| TOTAL OBS.    |      |      |      |      |     |      |      |      |      |      |      |     |               |

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

**EXTREME VALUES**

FROM DAILY OBSERVATIONS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

| MONTH<br>YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ALL<br>MONTHS |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
|               |     |     |     |     |     |     |     |     |     |     |     |     |               |
|               |     |     |     |     |     |     |     |     |     |     |     |     |               |
|               |     |     |     |     |     |     |     |     |     |     |     |     |               |
|               |     |     |     |     |     |     |     |     |     |     |     |     |               |
|               |     |     |     |     |     |     |     |     |     |     |     |     |               |
|               |     |     |     |     |     |     |     |     |     |     |     |     |               |
|               |     |     |     |     |     |     |     |     |     |     |     |     |               |
|               |     |     |     |     |     |     |     |     |     |     |     |     |               |
|               |     |     |     |     |     |     |     |     |     |     |     |     |               |
|               |     |     |     |     |     |     |     |     |     |     |     |     |               |
|               |     |     |     |     |     |     |     |     |     |     |     |     |               |
|               |     |     |     |     |     |     |     |     |     |     |     |     |               |
|               |     |     |     |     |     |     |     |     |     |     |     |     |               |
| MEAN          | .   | .   | .   | .   | .   | .   | .   | .   | .   | .   | .   | .   | .             |
| S D           | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00           |
| TOTAL OBS.    | 746 | 874 | 744 | 731 | 744 | 723 | 744 | 713 | 723 | 775 | 723 | 774 | 775           |

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

**EXTREME VALUES**

ANNUAL  
FROM DAILY OBSERVATIONS

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

ANNUAL RECORD IN INCHES  
FOR THE YEARS THAT FULL MONTHS

| MONTH<br>YEAR | JAN | FEB | MAR. | APR. | MAY | JUN | JUL | AUG | SEP. | OCT. | NOV. | DEC | ALL<br>MONTHS |
|---------------|-----|-----|------|------|-----|-----|-----|-----|------|------|------|-----|---------------|
|               |     |     |      |      |     |     |     |     |      |      |      |     |               |
|               |     |     |      |      |     |     |     |     |      |      |      |     |               |
|               |     |     |      |      |     |     |     |     |      |      |      |     |               |
|               |     |     |      |      |     |     |     |     |      |      |      |     |               |
|               |     |     |      |      |     |     |     |     |      |      |      |     |               |
|               |     |     |      |      |     |     |     |     |      |      |      |     |               |
|               |     |     |      |      |     |     |     |     |      |      |      |     |               |
|               |     |     |      |      |     |     |     |     |      |      |      |     |               |
| MEAN          |     |     |      |      |     |     |     |     |      |      |      |     |               |
| S.D.          |     |     |      |      |     |     |     |     |      |      |      |     |               |
| TOTAL OBS.    |     |     |      |      |     |     |     |     |      |      |      |     |               |

SMOS

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY EXTREME AMOUNTS

STATION STATION NAME

YEARS

MONTH

| DAY     | PRECIPITATION GREATEST |    |         | SNOWFALL GREATEST |    |      |
|---------|------------------------|----|---------|-------------------|----|------|
|         | INCHES                 | MM | DATE    | INCHES            | MM | DATE |
| 1       | .                      | .  | 1-1-71  |                   |    |      |
| 2       | .                      | .  | 1-2-    |                   |    |      |
| 3       | .                      | .  | 1-3-    |                   |    |      |
| 4       | .                      | .  | 1-4-    |                   |    |      |
| 5       | .                      | .  | 7-1 1-5 |                   |    |      |
| 6       | .                      | .  | 1-6-    |                   |    |      |
| 7       | .                      | .  | 1-7-    |                   |    |      |
| 8       | .                      | .  | 7-2     |                   |    |      |
| 9       | .                      | .  | 1-9-    |                   |    |      |
| 10      | .                      | .  | 1-10-   |                   |    |      |
| 11      | .                      | .  | 1-11-   |                   |    |      |
| 12      | .                      | .  | 1-12-   |                   |    |      |
| 13      | .                      | .  | 1-13-   |                   |    |      |
| 14      | .                      | 26 | 1-14-   |                   |    |      |
| 15      | .                      | .  | 1-15-   |                   |    |      |
| 16      | .                      | .  | 1-16-   |                   |    |      |
| 17      | .                      | .  | 1-17-   |                   |    |      |
| 18      | .                      | .  | 1-18-   |                   |    |      |
| 19      | .                      | .  | 1-19-   |                   |    |      |
| 20      | .                      | .  | 1-20-   |                   |    |      |
| 21      | .                      | .  | 1-21-   |                   |    |      |
| 22      | .                      | .  | 1-22-   |                   |    |      |
| 23      | .                      | .  | 1-23-   |                   |    |      |
| 24      | .                      | .  | 1-24-   |                   |    |      |
| 25      | .                      | .  | 1-25-   |                   |    |      |
| 26      | .                      | .  | 1-26-   |                   |    |      |
| 27      | .                      | .  | 1-27-   |                   |    |      |
| 28      | .                      | .  | 1-28-   |                   |    |      |
| 29      | .                      | .  | 1-29-   |                   |    |      |
| 30      | .                      | .  | 1-30-   |                   |    |      |
| 31      | .                      | .  | 1-31-   |                   |    |      |
| Monthly | .                      | .  | 7-1     | .                 | 6  |      |

| DAY     | PRECIPITATION GREATEST |    |         | SNOWFALL GREATEST |    |      |
|---------|------------------------|----|---------|-------------------|----|------|
|         | INCHES                 | MM | DATE    | INCHES            | MM | DATE |
| 1       | •                      | 12 | 1-1-71  |                   |    |      |
| 2       | •                      | 4  | 1-2-    |                   |    |      |
| 3       | •                      | 16 | 1-3-71  |                   |    |      |
| 4       | •                      | 1  | 1-4-    |                   |    |      |
| 5       | •                      | 16 | 1-5-71  |                   |    |      |
| 6       | •                      | 8  | 1-6-    |                   |    |      |
| 7       | •                      | 1  | 1-7-    |                   |    |      |
| 8       | •                      | 27 | 1-8-    |                   |    |      |
| 9       | •                      | 24 | 1-9-    |                   |    |      |
| 10      | •                      | 4  | 1-10-   |                   |    |      |
| 11      | •                      | 1  | 1-11-   |                   |    |      |
| 12      | •                      | 24 | 1-12-   |                   |    |      |
| 13      | 1                      | 3  | 1-13-   |                   |    |      |
| 14      | •                      | 1  | 1-14-   |                   |    |      |
| 15      | •                      | 1  | 1-15-   |                   |    |      |
| 16      | •                      | 1  | 1-16-   |                   |    |      |
| 17      | •                      | 22 | 1-17-71 |                   |    |      |
| 18      | •                      | 14 | 1-18-   |                   |    |      |
| 19      | •                      | 1  | 1-19-   |                   |    |      |
| 20      | •                      | 17 | 1-20-   |                   |    |      |
| 21      | •                      | 27 | 1-21-   |                   |    |      |
| 22      | •                      | 1  | 1-22-   |                   |    |      |
| 23      | •                      | 17 | 1-23-   |                   |    |      |
| 24      | •                      | 27 | 1-24-   |                   |    |      |
| 25      | •                      | 13 | 1-25-   |                   |    |      |
| 26      | •                      | 23 | 1-26-   |                   |    |      |
| 27      | •                      | 1  | 1-27-   |                   |    |      |
| 28      | •                      | 1  | 1-28-   |                   |    |      |
| 29      | •                      | 24 | 1-29-   |                   |    |      |
| 30      |                        |    |         |                   |    |      |
| 31      |                        |    |         |                   |    |      |
| Monthly | •                      | 74 | 1-31-71 |                   |    |      |

\* ALSO ON EARLIER YEARS

T TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY EXTREME AMOUNTS

STATION

STATION NAME

YEARS

| DAY     | PRECIPITATION GREATEST |    |      | SNOWFALL GREATEST |    |      |
|---------|------------------------|----|------|-------------------|----|------|
|         | INCHES                 | MM | DATE | INCHES            | MM | DATE |
| 1       | •                      | 74 |      |                   |    |      |
| 2       | •                      | 7  | 1 17 |                   |    |      |
| 3       | •                      | 74 | 1 17 |                   |    |      |
| 4       | •                      | 74 | 1 17 |                   |    |      |
| 5       | • 1                    | 3  | 1 17 |                   |    |      |
| 6       | • 7                    | 17 | 1 17 |                   |    |      |
| 7       | •                      | 7  | 1 17 |                   |    |      |
| 8       | •                      | 7  | 1 17 |                   |    |      |
| 9       | •                      | 7  | 1 17 |                   |    |      |
| 10      | •                      | 74 | 1 17 |                   |    |      |
| 11      | •                      | 7  | 1 17 |                   |    |      |
| 12      | •                      | 7  | 1 17 |                   |    |      |
| 13      | •                      | 74 | 1 17 |                   |    |      |
| 14      | •                      | 7  | 1 17 |                   |    |      |
| 15      | •                      | 7  | 1 17 |                   |    |      |
| 16      | •                      | 7  | 1 17 |                   |    |      |
| 17      | •                      | 7  | 1 17 |                   |    |      |
| 18      | •                      | 74 | 1 17 |                   |    |      |
| 19      | •                      | 7  | 1 17 |                   |    |      |
| 20      | •                      | 74 | 1 17 |                   |    |      |
| 21      | •                      | 7  | 1 17 |                   |    |      |
| 22      | •                      | 76 | 1 17 |                   |    |      |
| 23      | •                      | 74 | 1 17 |                   |    |      |
| 24      | •                      | 74 | 1 17 |                   |    |      |
| 25      | •                      | 7  | 1 17 |                   |    |      |
| 26      | •                      | 73 | 1 17 |                   |    |      |
| 27      | •                      | 74 | 1 17 |                   |    |      |
| 28      | •                      | 7  | 1 17 |                   |    |      |
| 29      | •                      | 7  | 1 17 |                   |    |      |
| 30      | •                      | 7  | 1 17 |                   |    |      |
| 31      | •                      | 7  | 1 17 |                   |    |      |
| Monthly | •                      | 7  | 1 17 |                   |    |      |

| DAY     | PRECIPITATION GREATEST |    |      | SNOWFALL GREATEST |    |      |
|---------|------------------------|----|------|-------------------|----|------|
|         | INCHES                 | MM | DATE | INCHES            | MM | DATE |
| 1       | •                      | 7  | 1 17 |                   |    |      |
| 2       | •                      | 7  | 1 17 |                   |    |      |
| 3       | • 7                    | 17 | 1 17 |                   |    |      |
| 4       | • 74                   | 17 | 1 17 |                   |    |      |
| 5       | • 7                    | 17 | 1 17 |                   |    |      |
| 6       | • 74                   | 17 | 1 17 |                   |    |      |
| 7       | • 7                    | 17 | 1 17 |                   |    |      |
| 8       | • 1                    | 7  | 1 17 |                   |    |      |
| 9       | • 7                    | 17 | 1 17 |                   |    |      |
| 10      | • 7                    | 17 | 1 17 |                   |    |      |
| 11      | • 1                    | 7  | 1 17 |                   |    |      |
| 12      | • 7                    | 17 | 1 17 |                   |    |      |
| 13      | • 7                    | 17 | 1 17 |                   |    |      |
| 14      | • 7                    | 17 | 1 17 |                   |    |      |
| 15      | • 74                   | 17 | 1 17 |                   |    |      |
| 16      | • 7                    | 17 | 1 17 |                   |    |      |
| 17      | • 7                    | 17 | 1 17 |                   |    |      |
| 18      | • 7                    | 17 | 1 17 |                   |    |      |
| 19      | • 7                    | 17 | 1 17 |                   |    |      |
| 20      | • 7                    | 17 | 1 17 |                   |    |      |
| 21      | • 7                    | 17 | 1 17 |                   |    |      |
| 22      | • 7                    | 17 | 1 17 |                   |    |      |
| 23      | • 1                    | 7  | 1 17 |                   |    |      |
| 24      | • 7                    | 17 | 1 17 |                   |    |      |
| 25      | • 7                    | 17 | 1 17 |                   |    |      |
| 26      | • 7                    | 17 | 1 17 |                   |    |      |
| 27      | • 7                    | 17 | 1 17 |                   |    |      |
| 28      | • 7                    | 17 | 1 17 |                   |    |      |
| 29      | • 7                    | 17 | 1 17 |                   |    |      |
| 30      | • 74                   | 17 | 1 17 |                   |    |      |
| 31      |                        |    |      |                   |    |      |
| Monthly | 1 0 2                  | 7  | 1 17 |                   |    |      |

\* ALSO ON EARLIER YEARS

T TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

**DAILY EXTREME AMOUNTS**

| STATION |        |    | STATION NAME           |        |    | YEARS             |        |    |
|---------|--------|----|------------------------|--------|----|-------------------|--------|----|
|         |        |    |                        |        |    |                   |        |    |
|         |        |    |                        |        |    |                   |        |    |
| MONTH   |        |    |                        |        |    |                   |        |    |
| DAY     |        |    | PRECIPITATION GREATEST |        |    | SNOWFALL GREATEST |        |    |
| DAY     | INCHES | MM | DATE                   | INCHES | MM | DATE              | INCHES | MM |
| 1       | .      | .  |                        |        |    |                   |        |    |
| 2       | .      | .  |                        |        |    |                   |        |    |
| 3       | .      | .  |                        |        |    |                   |        |    |
| 4       | .      | .  | 1 7                    |        |    |                   |        |    |
| 5       | .      | .  | 1 8                    |        |    |                   |        |    |
| 6       | .      | .  | 1 9                    |        |    |                   |        |    |
| 7       | .      | .  | 1 10                   |        |    |                   |        |    |
| 8       | .      | .  | 1 11                   |        |    |                   |        |    |
| 9       | .      | .  | 1 12                   |        |    |                   |        |    |
| 10      | .      | .  | 1 13                   |        |    |                   |        |    |
| 11      | .      | .  | 1 14                   |        |    |                   |        |    |
| 12      | .      | .  | 1 15                   |        |    |                   |        |    |
| 13      | .      | .  | 1 16                   |        |    |                   |        |    |
| 14      | .      | .  | 1 17                   |        |    |                   |        |    |
| 15      | .      | .  | 1 18                   |        |    |                   |        |    |
| 16      | .      | .  | 1 19                   |        |    |                   |        |    |
| 17      | .      | .  | 1 20                   |        |    |                   |        |    |
| 18      | .      | .  | 1 21                   |        |    |                   |        |    |
| 19      | .      | .  | 1 22                   |        |    |                   |        |    |
| 20      | .      | .  | 1 23                   |        |    |                   |        |    |
| 21      | .      | .  | 1 24                   |        |    |                   |        |    |
| 22      | .      | .  | 1 25                   |        |    |                   |        |    |
| 23      | .      | .  | 1 26                   |        |    |                   |        |    |
| 24      | .      | .  | 1 27                   |        |    |                   |        |    |
| 25      | .      | .  | 1 28                   |        |    |                   |        |    |
| 26      | .      | .  | 1 29                   |        |    |                   |        |    |
| 27      | .      | .  | 1 30                   |        |    |                   |        |    |
| 28      | .      | .  | 1 31                   |        |    |                   |        |    |
| 29      | .      | .  | 1 1                    |        |    |                   |        |    |
| 30      | .      | .  | 1 2                    |        |    |                   |        |    |
| 31      | .      | .  | 1 3                    |        |    |                   |        |    |
| Monthly |        |    |                        |        |    |                   |        |    |

\* ALSO ON EARLIER YEARS

T TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCANMET-SMOS

H  
4  
NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY EXTREME AMOUNTS

STATE \_\_\_\_\_ STATION NAME \_\_\_\_\_

YEARS \_\_\_\_\_

MONTH \_\_\_\_\_

| DAY     | PRECIPITATION GREATEST |    |      | SNOWFALL GREATEST |    |      |
|---------|------------------------|----|------|-------------------|----|------|
|         | INCHES                 | MM | DATE | INCHES            | MM | DATE |
| 1       | .                      | .  | 1 77 | .                 | .  |      |
| 2       | .                      | .  |      | .                 | .  |      |
| 3       | .                      | .  |      | .                 | .  |      |
| 4       | .                      | .  | 1 77 | .                 | .  |      |
| 5       | .                      | .  | 4    | .                 | .  |      |
| 6       | .                      | .  | 1    | .                 | .  |      |
| 7       | .                      | .  | 1    | .                 | .  |      |
| 8       | .                      | .  |      | .                 | .  |      |
| 9       | .                      | .  |      | .                 | .  |      |
| 10      | .                      | .  |      | .                 | .  |      |
| 11      | .                      | .  |      | .                 | .  |      |
| 12      | .                      | .  |      | .                 | .  |      |
| 13      | .                      | .  | 2    | .                 | .  |      |
| 14      | .                      | .  |      | .                 | .  |      |
| 15      | .                      | .  |      | .                 | .  |      |
| 16      | .                      | .  |      | .                 | .  |      |
| 17      | .                      | .  |      | .                 | .  |      |
| 18      | .                      | .  |      | .                 | .  |      |
| 19      | .                      | .  |      | .                 | .  |      |
| 20      | .                      | .  |      | .                 | .  |      |
| 21      | .                      | .  |      | .                 | .  |      |
| 22      | .                      | .  |      | .                 | .  |      |
| 23      | .                      | .  |      | .                 | .  |      |
| 24      | .                      | .  |      | .                 | .  |      |
| 25      | .                      | .  | 1 77 | .                 | .  |      |
| 26      | .                      | .  |      | .                 | .  |      |
| 27      | .                      | .  | 1    | .                 | .  |      |
| 28      | .                      | .  |      | .                 | .  |      |
| 29      | .                      | .  |      | .                 | .  |      |
| 30      | .                      | .  |      | .                 | .  |      |
| 31      | .                      | .  |      | .                 | .  |      |
| Monthly | .                      | ?  |      | 1 77              | .  |      |

| DAY     | PRECIPITATION GREATEST |    |        | SNOWFALL GREATEST |    |      |
|---------|------------------------|----|--------|-------------------|----|------|
|         | INCHES                 | MM | DATE   | INCHES            | MM | DATE |
| 1       | .                      | .  | 1 77   | .                 | .  |      |
| 2       | .                      | .  | 2      | .                 | .  |      |
| 3       | .                      | .  |        | .                 | .  |      |
| 4       | .                      | .  |        | .                 | .  |      |
| 5       | .                      | .  |        | .                 | .  |      |
| 6       | .                      | .  | 2      | .                 | .  |      |
| 7       | .                      | .  | 1      | .                 | .  |      |
| 8       | .                      | .  | 2      | .                 | .  |      |
| 9       | .                      | .  | 1      | .                 | .  |      |
| 10      | .                      | .  |        | .                 | .  |      |
| 11      | .                      | .  |        | .                 | .  |      |
| 12      | .                      | .  | 1      | .                 | .  |      |
| 13      | .                      | .  | 1      | .                 | .  |      |
| 14      | .                      | .  | 1 77   | .                 | .  |      |
| 15      | .                      | .  | 1 77   | .                 | .  |      |
| 16      | .                      | .  | 1 77   | .                 | .  |      |
| 17      | .                      | .  | 1 77   | .                 | .  |      |
| 18      | .                      | .  | 1 77   | .                 | .  |      |
| 19      | .                      | .  | 1 77   | .                 | .  |      |
| 20      | .                      | .  | 1 77   | .                 | .  |      |
| 21      | .                      | .  | 1      | .                 | .  |      |
| 22      | .                      | .  | 1      | .                 | .  |      |
| 23      | .                      | .  | 1      | .                 | .  |      |
| 24      | .                      | .  | 1      | .                 | .  |      |
| 25      | .                      | .  | 1      | .                 | .  |      |
| 26      | .                      | .  | 1      | .                 | .  |      |
| 27      | .                      | ?  | 1 77   | .                 | .  |      |
| 28      | .                      | ?  | 1 77   | .                 | .  |      |
| 29      | .                      | .  | 1      | .                 | .  |      |
| 30      | .                      | .  | 1      | .                 | .  |      |
| 31      | .                      | .  | 1      | .                 | .  |      |
| Monthly | .                      | ?  | 5 1 77 | .                 | .  |      |

\* ALSO ON EARLIER YEARS  
T - TRACE AN AMOUNT TOO SMALL TO MEASURE  
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE - NORTH CAROLINA

## DAILY EXTREME AMOUNTS

STATION NAME \_\_\_\_\_

YEARS \_\_\_\_\_

| MONTH   |        |    | SNOWFALL GREATEST |        |    |
|---------|--------|----|-------------------|--------|----|
|         | INCHES | MM | DATE              | INCHES | MM |
| 1       |        |    |                   |        |    |
| 2       |        |    |                   |        |    |
| 3       |        |    |                   |        |    |
| 4       |        |    |                   |        |    |
| 5       |        |    |                   |        |    |
| 6       |        |    |                   |        |    |
| 7       |        |    |                   |        |    |
| 8       |        |    |                   |        |    |
| 9       |        |    |                   |        |    |
| 10      |        |    |                   |        |    |
| 11      |        |    |                   |        |    |
| 12      |        |    |                   |        |    |
| 13      |        |    |                   |        |    |
| 14      |        |    |                   |        |    |
| 15      |        |    |                   |        |    |
| 16      |        |    |                   |        |    |
| 17      |        |    |                   |        |    |
| 18      |        |    |                   |        |    |
| 19      |        |    |                   |        |    |
| 20      |        |    |                   |        |    |
| 21      |        |    |                   |        |    |
| 22      |        |    |                   |        |    |
| 23      |        |    |                   |        |    |
| 24      |        |    |                   |        |    |
| 25      |        |    |                   |        |    |
| 26      |        |    |                   |        |    |
| 27      |        |    |                   |        |    |
| 28      |        |    |                   |        |    |
| 29      |        |    |                   |        |    |
| 30      |        |    |                   |        |    |
| 31      |        |    |                   |        |    |
| Monthly |        |    |                   |        |    |

| MONTH   |         |    | SNOWFALL GREATEST |        |    |
|---------|---------|----|-------------------|--------|----|
|         | INCHES  | MM | DATE              | INCHES | MM |
| 1       | • 0     | 0  | 22 1              |        |    |
| 2       | 1 0 1   | 25 | 12 2              |        |    |
| 3       | 1 0 1   | 25 | 11 1              |        |    |
| 4       | 1 0     | 25 | 12 2              |        |    |
| 5       | 0 0     | 0  | 17 10 22          |        |    |
| 6       | 0 0     | 0  | 24 10 15          |        |    |
| 7       | 0 0     | 0  | 10 1              |        |    |
| 8       | 0 0     | 0  | 1 17              |        |    |
| 9       | 1 0     | 25 | 1 17              |        |    |
| 10      | 0 0     | 0  | 5 1               |        |    |
| 11      | 0 0 2   | 50 | 10 15             |        |    |
| 12      | 0 0 2   | 50 | 12 7              |        |    |
| 13      | 0 0     | 0  | 6 1               |        |    |
| 14      | 0 0     | 0  | 1 1               |        |    |
| 15      | 0 0     | 0  | 15 1              |        |    |
| 16      | 0 0     | 0  | 1 17              |        |    |
| 17      | 1 0 7   | 25 | 1 17              |        |    |
| 18      | 0 0     | 0  | 5 1               |        |    |
| 19      | 0 0     | 0  | 6 1               |        |    |
| 20      | 0 0 4   | 10 | 1 17              |        |    |
| 21      | 0 0     | 0  | 1 17              |        |    |
| 22      | 1 0 3   | 25 | 15 1              |        |    |
| 23      | 0 0     | 0  | 2 1               |        |    |
| 24      | 0 0     | 0  | 2 1               |        |    |
| 25      | 0 0     | 0  | 1 1               |        |    |
| 26      | 0 0     | 0  | 5 1               |        |    |
| 27      | 0 1     | 25 | 1 17              |        |    |
| 28      | 0 0 7   | 18 | 1 17              |        |    |
| 29      | 1 0 1   | 25 | 1 17              |        |    |
| 30      | 1 0 1 0 | 25 | 1 17              |        |    |
| 31      | 1 0 1   | 25 | 1 17              |        |    |
| Monthly | 0 0 7   | 18 | 1 17              |        |    |

\* ALSO ON EARLIER YEARS

† TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY EXTREME AMOUNTS

STAFF NO. STATION NAME

YEARS

MONTH

| DAY       | PRECIPITATION GREATEST |    |      | SNOWFALL GREATEST |    |      |
|-----------|------------------------|----|------|-------------------|----|------|
|           | INCHES                 | MM | DATE | INCHES            | MM | DATE |
| 1         |                        |    |      |                   |    |      |
| 2         |                        |    |      |                   |    |      |
| 3         |                        |    |      |                   |    |      |
| 4         |                        |    |      |                   |    |      |
| 5         |                        |    |      |                   |    |      |
| 6         |                        |    |      |                   |    |      |
| 7         |                        |    |      |                   |    |      |
| 8         |                        |    |      |                   |    |      |
| 9         |                        |    |      |                   |    |      |
| 10        |                        |    |      |                   |    |      |
| 11        |                        |    |      |                   |    |      |
| 12        |                        |    |      |                   |    |      |
| 13        |                        |    |      |                   |    |      |
| 14        |                        |    |      |                   |    |      |
| 15        |                        |    |      |                   |    |      |
| 16        |                        |    |      |                   |    |      |
| 17        |                        |    |      |                   |    |      |
| 18        |                        |    |      |                   |    |      |
| 19        |                        |    |      |                   |    |      |
| 20        |                        |    |      |                   |    |      |
| 21        |                        |    |      |                   |    |      |
| 22        |                        |    |      |                   |    |      |
| 23        |                        |    |      |                   |    |      |
| 24        |                        |    |      |                   |    |      |
| 25        |                        |    |      |                   |    |      |
| 26        |                        |    |      |                   |    |      |
| 27        |                        |    |      |                   |    |      |
| 28        |                        |    |      |                   |    |      |
| 29        |                        |    |      |                   |    |      |
| 30        |                        |    |      |                   |    |      |
| 31        |                        |    |      |                   |    |      |
| Minimally |                        |    |      |                   |    |      |

| DAY       | PRECIPITATION GREATEST |    |      | SNOWFALL GREATEST |    |      |
|-----------|------------------------|----|------|-------------------|----|------|
|           | INCHES                 | MM | DATE | INCHES            | MM | DATE |
| 1         | 0                      | 0  |      |                   |    |      |
| 2         | 0                      | 0  |      |                   |    |      |
| 3         | 0                      | 0  |      |                   |    |      |
| 4         | 0                      | 0  |      |                   |    |      |
| 5         | 0                      | 0  |      |                   |    |      |
| 6         | 0                      | 0  |      |                   |    |      |
| 7         | 0                      | 0  |      |                   |    |      |
| 8         | 0                      | 0  |      |                   |    |      |
| 9         | 0                      | 0  |      |                   |    |      |
| 10        | 0                      | 0  |      |                   |    |      |
| 11        | 0                      | 0  |      |                   |    |      |
| 12        | 0                      | 0  |      |                   |    |      |
| 13        | 0                      | 0  |      |                   |    |      |
| 14        | 0                      | 0  |      |                   |    |      |
| 15        | 0                      | 0  |      |                   |    |      |
| 16        | 0                      | 0  |      |                   |    |      |
| 17        | 0                      | 0  |      |                   |    |      |
| 18        | 0                      | 0  |      |                   |    |      |
| 19        | 0                      | 0  |      |                   |    |      |
| 20        | 0                      | 0  |      |                   |    |      |
| 21        | 0                      | 0  |      |                   |    |      |
| 22        | 0                      | 0  |      |                   |    |      |
| 23        | 0                      | 0  |      |                   |    |      |
| 24        | 0                      | 0  |      |                   |    |      |
| 25        | 0                      | 0  |      |                   |    |      |
| 26        | 0                      | 0  |      |                   |    |      |
| 27        | 0                      | 0  |      |                   |    |      |
| 28        | 0                      | 0  |      |                   |    |      |
| 29        | 0                      | 0  |      |                   |    |      |
| 30        | 0                      | 0  |      |                   |    |      |
| 31        | 0                      | 0  |      |                   |    |      |
| Minimally | 0                      | 0  |      |                   |    |      |

\* ALSO ON EARLIER YEARS

T TRACE AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCANMET-SMOS

WINDS

## PART C SURFACE WINDS

The contents of this part are summarized below in the following:

- a. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month. For the entire period of record available, speeds are presented in knots, while directions are given in 16 compass points from the beginning of record for up to 1963, and in tens of degrees starting in January 1964. When less than four of the daily observations of peak gust wind data are available for a month, the extreme is considered unprinted. These values are then used to compute mean and standard deviations for the entire period. Every month of a year will have valid observations present before the ALL MONTHS value is selected for that year. Mean and standard deviations are computed when four or more values are present for any month. A supplementary list of Peak Gusts by year-month with a 10% observation reported is also provided.

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recordings."

- b. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of 10. Wind classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In those data where light and variable winds are reported with no directions but with speeds given, the speed is filled in summarized in the appropriate groups opposite the column headed VARSL.

c. Three tables are prepared for all surface winds included, and for all years combined as follows:

- (a) Annual - all hours combined
  - (b) By month - all hours combined
  - (c) By month - by standard 3-hour groups
- d. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/4 through 1-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

AIR FORCE WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

**EXTREME VALUES**

STATION NAME: ASHEVILLE, NORTH CAROLINA      YEARS: 1948-1957

| MONTH     | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC     | ANNUAL  |
|-----------|------|------|------|------|------|------|------|------|------|------|------|---------|---------|
|           | YEAR | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1948-57 | 1948-57 |
| JAN       |      |      |      |      |      |      |      |      |      |      |      |         |         |
| FEB       |      |      |      |      |      |      |      |      |      |      |      |         |         |
| MAR       |      |      |      |      |      |      |      |      |      |      |      |         |         |
| APR       |      |      |      |      |      |      |      |      |      |      |      |         |         |
| MAY       |      |      |      |      |      |      |      |      |      |      |      |         |         |
| JUN       |      |      |      |      |      |      |      |      |      |      |      |         |         |
| JUL       |      |      |      |      |      |      |      |      |      |      |      |         |         |
| AUG       |      |      |      |      |      |      |      |      |      |      |      |         |         |
| SEP       |      |      |      |      |      |      |      |      |      |      |      |         |         |
| OCT       |      |      |      |      |      |      |      |      |      |      |      |         |         |
| NOV       |      |      |      |      |      |      |      |      |      |      |      |         |         |
| DEC       |      |      |      |      |      |      |      |      |      |      |      |         |         |
| ANNUAL    |      |      |      |      |      |      |      |      |      |      |      |         |         |
| MEAN      |      |      |      |      |      |      |      |      |      |      |      |         |         |
| STD       |      |      |      |      |      |      |      |      |      |      |      |         |         |
| TOTAL OBS |      |      |      |      |      |      |      |      |      |      |      |         |         |

SMOS

14 A WEATHER SERVICE ATTACHMENT  
GREENVILLE, NORTH CAROLINA

## EXTREME VALUES

STATION NAME \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_ YEARS \_\_\_\_\_

卷之三

# SURFACE WINDS

4  
 NAVAL WEATHER STATION  
 U.S. NAVY  
 ASHEVILLE, NC

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION                 | STATION NAME | YEARS | MONTH  | HOURLY  |         |         |         |         |         |         |         |         |         | MEAN<br>WIND<br>SPEED |  |
|-------------------------|--------------|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------------------|--|
|                         |              |       |        | CLASS   | 1 - 3   | 4 - 6   | 7 - 10  | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55               |  |
| CONDITION               |              |       |        |         |         |         |         |         |         |         |         |         |         |                       |  |
|                         |              |       |        |         |         |         |         |         |         |         |         |         |         |                       |  |
| SPEED<br>(KNTS)<br>DIR. | 1 - 3        | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56    | %       |         |                       |  |
| N                       | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .                     |  |
| NNE                     | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .                     |  |
| NE                      | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .                     |  |
| ENE                     | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .                     |  |
| E                       | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .                     |  |
| ESE                     | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .                     |  |
| SE                      | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .                     |  |
| SSE                     | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .                     |  |
| S                       | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .                     |  |
| SSW                     | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .                     |  |
| SW                      | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .                     |  |
| WSW                     | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .                     |  |
| W                       | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .                     |  |
| WNW                     | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .                     |  |
| NW                      | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .                     |  |
| NNW                     | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .       | .       | .       | .                     |  |
| VARB                    |              |       |        |         |         |         |         |         |         |         |         |         |         |                       |  |
| CALM                    |              |       |        |         |         |         |         |         |         |         |         |         |         |                       |  |
|                         | *            | *     | *      | *       | *       | *       | *       | *       | *       | *       | *       | *       | *       | *                     |  |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NATIONAL WEATHER RECORD  
SUPPLEMENT NO. 1  
ASHEVILLE, NC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOURS |
|         |              | CONDITION | LST   |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| VARBL                   | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | X | X                     |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | X | X                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER STATION  
ATTACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOURS |
|         |              | CONDITION | LST   |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     | *      | *       | 1*      |         |         |         |         |         |           |   |                       |
| NNE                     | *     | *     | *      | *       | *       |         |         |         |         |         |           |   |                       |
| NE                      | *     | *     | *      | *       |         |         |         |         |         |         |           |   |                       |
| ENE                     | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| E                       | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| ESE                     | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| SE                      | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| SSE                     | *     |       |        |         |         |         |         |         |         |         |           |   |                       |
| S                       | *     |       |        |         |         |         |         |         |         |         |           |   |                       |
| SSW                     | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| SW                      |       | *     |        |         |         |         |         |         |         |         |           |   |                       |
| WSW                     | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| W                       | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| WNW                     | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| NW                      | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| NNW                     | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |           |   |                       |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOURS |
|         |              | CONDITION |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       | *     | *     | *      | *       |         |         |         |         |         |         |      | *                     |
| NNE                     | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| NE                      | *     |       |        |         |         |         |         |         |         |         |      | *                     |
| ENE                     | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| E                       | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       |         |         |         |         |      | *                     |
| SE                      | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| SSE                     | *     |       |        |         |         |         |         |         |         |         |      | *                     |
| S                       | *     |       |        |         |         |         |         |         |         |         |      | *                     |
| SSW                     | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| SW                      | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| WSW                     | *     |       |        |         |         |         |         |         |         |         |      | *                     |
| W                       | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| WNW                     | *     |       |        |         |         |         |         |         |         |         |      | *                     |
| NW                      | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| NNW                     | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHVILLE, NC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONT  |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOURS |
|         |              | CONDITION | LST   |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------------------|
| N                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| NNE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| WNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| NW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         |                       |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## **SURFACE WINDS**

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

|         |              |       |                |
|---------|--------------|-------|----------------|
| STATION | STATION NAME | YEARS | MONTH          |
|         |              |       |                |
|         | CLASS        |       | HOURS A. S. T. |
|         |              |       |                |
|         | CONDITION    |       |                |
|         |              |       |                |

**TOTAL NUMBER OF OBSERVATIONS**

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

705440

225

| STATION | STATION NAME | YEARS     | MONTH       |
|---------|--------------|-----------|-------------|
|         |              | CLASS     | HOURLY LIST |
|         |              | CONDITION |             |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 53 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     | *      |         |         |         |         |         |         |         |           | * |                       |
| NNE                     | *     | *     | *      |         |         |         |         |         |         |         |           | * |                       |
| NE                      | *     | *     | *      |         |         |         |         |         |         |         |           | * |                       |
| ENE                     | *     | *     |        |         |         |         |         |         |         |         |           | * |                       |
| E                       | *     | *     | *      | *       | *       |         |         |         |         |         |           | * |                       |
| ESE                     | *     | *     | *      | *       |         |         |         |         |         |         |           | * |                       |
| SE                      | *     | *     | *      | *       |         |         |         |         |         |         |           | * |                       |
| SSE                     | *     | *     | *      |         |         |         |         |         |         |         |           | * |                       |
| S                       | *     | *     | *      |         |         |         |         |         |         |         |           | * |                       |
| SSW                     | *     | *     | *      |         |         |         |         |         |         |         |           | * |                       |
| SW                      | *     | *     | *      |         |         |         |         |         |         |         |           | * |                       |
| WSW                     | *     | *     | *      |         |         |         |         |         |         |         |           | * |                       |
| W                       | *     | *     | *      |         |         |         |         |         |         |         |           | * |                       |
| WNW                     | *     | *     | *      |         |         |         |         |         |         |         |           | * |                       |
| NW                      | *     | *     | *      |         |         |         |         |         |         |         |           | * |                       |
| NNW                     | *     | *     | *      |         |         |         |         |         |         |         |           | * |                       |
| VARI                    |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |           | * |                       |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS    | MONTH |
|---------|--------------|----------|-------|
|         |              |          |       |
|         |              | CLASSE   | HOURS |
|         |              |          | LIST  |
|         |              | CONDITON |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| NNE                     | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| NE                      | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| ENE                     | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| E                       | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| ESE                     | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| SE                      | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| SSE                     | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| S                       | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| SSW                     | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| SW                      | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| WSW                     | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| W                       | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| WNW                     | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| NW                      | *     | *     | *      | 1       | *       |         |         |         |         |         |           | * | *                     |
| NNW                     | *     | *     | *      | *       | *       |         |         |         |         |         |           | * | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |           |   |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4  
1964-12

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
|         |              | CLASS     |       |
|         |              | CONDITION | HOURS |

| SPEED<br>(KNOTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|--------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                        | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NNE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NE                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| ENE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| E                        | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| ESE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SE                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SSE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| S                        | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SSW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SW                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| WSW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| W                        | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| WNW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NW                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NNW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| VARBL                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                     | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    | X | X                     |
|                          | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4  
NAVAL WEATHER SERVICE  
ATLANTIC OCEAN  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONT  |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOURS |
|         |              |           |       |
|         |              | CONDITION |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | +     | +     | +      |         |         |         |         |         |         |         |      | + |                       |
| NNE                     | +     | +     | +      |         |         |         |         |         |         |         |      | + |                       |
| NE                      | +     | +     | +      | +       | +       |         |         |         |         |         |      | + |                       |
| ENE                     | +     | +     | +      | +       | +       | +       |         |         |         |         |      | + |                       |
| E                       | +     | +     | +      | +       | +       | +       | +       |         |         |         |      | + |                       |
| ESE                     | +     | +     | +      | +       | +       | +       | +       | +       |         |         |      | + |                       |
| SE                      | +     | +     | +      | +       | +       | +       | +       | +       | +       |         |      | + |                       |
| SSE                     | +     | +     | +      | +       | +       | +       | +       | +       | +       | +       |      | + |                       |
| S                       | +     | +     | +      | +       | +       | +       | +       | +       | +       | +       | +    | + |                       |
| SSW                     | +     | +     | +      | +       | +       | +       | +       | +       | +       | +       | +    | + |                       |
| SW                      | +     | +     | +      | +       | +       | +       | +       | +       | +       | +       | +    | + |                       |
| WSW                     | +     | +     | +      | +       | +       | +       | +       | +       | +       | +       | +    | + |                       |
| W                       | +     | +     | +      | +       | +       | +       | +       | +       | +       | +       | +    | + |                       |
| WNW                     | +     | +     | +      | +       | +       | +       | +       | +       | +       | +       | +    | + |                       |
| NW                      | +     | +     | +      | +       | +       | +       | +       | +       | +       | +       | +    | + |                       |
| NNW                     | +     | +     | +      | +       | +       | +       | +       | +       | +       | +       | +    | + |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER RESEARCH  
DEPARTMENT  
ASHVILLE, NC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS | MONTH     |
|---------|--------------|-------|-----------|
|         | CLASS        |       | HOURS < 5 |
|         | CONDITION    |       |           |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | -     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NNE                     |       | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| WNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| VARI                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    | X | X                     |
|                         | 0     | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0 | 0                     |

TOTAL NUMBER OF OBSERVATIONS

NOAA/National Climatic  
Data Center  
Atmospheric Data

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH  |
|---------|--------------|-----------|--------|
|         |              |           |        |
|         |              | CLASS     |        |
|         |              |           | HOURLY |
|         |              | CONDITION |        |
|         |              |           |        |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| WNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |           |   |                       |



TOTAL NUMBER OF OBSERVATIONS

NOAA/National Climatic Data Center  
Atmospheric Data

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEAR      | MONTH |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOLES |
|         |              | CONDITION |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| VARBL                   | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| CALM                    | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |

TOTAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

**TOTAL NUMBER OF OBSERVATIONS**

SMOS

E  
4

STATION

| SPEED<br>(KNTS) | DIR  |
|-----------------|------|
| -               | N    |
| -               | NNE  |
| -               | NE   |
| -               | ENE  |
| -               | E    |
| -               | ESE  |
| -               | SE   |
| -               | SSE  |
| -               | S    |
| -               | SSW  |
| -               | SW   |
| -               | WSW  |
| -               | W    |
| -               | WNW  |
| -               | NW   |
| -               | NNW  |
| -               | VARI |
| -               | CALM |

SMOS

E  
4

## SURFACE WINDS

NATIONAL WEATHER SERVICE  
ATLANTA, GEORGIA  
ANNUAL SUMMARY

4

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | PORTS |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOURS |
|         |              | CONDITION | LST   |

| SPEED<br>(KNTS)<br>DIR | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                      | *     | *     | *      | *       | *       | -       | -       | -       | -       | -       | -         | * | *                     |
| NNE                    | *     | *     | *      | *       | *       | -       | -       | -       | -       | -       | -         | * | *                     |
| NE                     | *     | *     | *      | *       | *       | -       | -       | -       | -       | -       | -         | * | *                     |
| ENE                    | *     | *     | *      | *       | *       | -       | -       | -       | -       | -       | -         | * | *                     |
| E                      | *     | *     | *      | *       | *       | -       | -       | -       | -       | -       | -         | * | *                     |
| ESE                    | *     | *     | *      | *       | *       | -       | -       | -       | -       | -       | -         | * | *                     |
| SE                     | *     | *     | *      | *       | *       | -       | -       | -       | -       | -       | -         | * | *                     |
| SSE                    | *     | *     | *      | *       | *       | -       | -       | -       | -       | -       | -         | * | *                     |
| S                      | *     | *     | *      | *       | *       | -       | -       | -       | -       | -       | -         | * | *                     |
| SSW                    | *     | *     | *      | *       | *       | -       | -       | -       | -       | -       | -         | * | *                     |
| SW                     | *     | *     | *      | *       | *       | -       | -       | -       | -       | -       | -         | * | *                     |
| WSW                    | *     | *     | *      | *       | *       | -       | -       | -       | -       | -       | -         | * | *                     |
| W                      | *     | *     | *      | *       | *       | -       | -       | -       | -       | -       | -         | * | *                     |
| WNW                    | *     | *     | *      | *       | *       | -       | -       | -       | -       | -       | -         | * | *                     |
| NW                     | *     | *     | *      | *       | *       | -       | -       | -       | -       | -       | -         | * | *                     |
| NNW                    | *     | *     | *      | *       | *       | -       | -       | -       | -       | -       | -         | * | *                     |
| VARBL                  |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                   |       |       |        |         |         |         |         |         |         |         |           |   |                       |
|                        | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

SAVAGE AND CO., INC.  
11 EASTMORELAND  
ASHEVILLE, NC

## **SURFACE WINDS**

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

**TOTAL NUMBER OF OBSERVATIONS**

SMOS

NAVAL WEATHER SERVICE  
ATLANTIC OCEAN  
ATLANTIC CITY, N.J.

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION   | STATION NAME | YEARS | MONTH |
|-----------|--------------|-------|-------|
|           |              |       |       |
|           |              |       |       |
|           |              |       |       |
| CONDITION |              |       |       |
|           |              |       |       |
|           |              |       |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 | 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|----|----|---------|---------|---------|-----------|---|-----------------------|
| N                       | .     | *     | *      |         |         |         |    |    |         |         |         |           |   |                       |
| NNE                     | *     | *     | *      |         |         |         |    |    |         |         |         |           |   |                       |
| NE                      | *     | *     | *      |         |         |         |    |    |         |         |         |           |   |                       |
| ENE                     | *     | *     | *      |         |         |         |    |    |         |         |         |           |   |                       |
| E                       | *     | *     | *      |         |         |         |    |    |         |         |         |           |   |                       |
| ESE                     |       | *     | *      |         |         |         |    |    |         |         |         |           |   |                       |
| SE                      | *     | *     | *      |         |         |         |    |    |         |         |         |           |   |                       |
| SSE                     | *     | *     | *      |         |         |         |    |    |         |         |         |           |   |                       |
| S                       | *     | *     | *      |         |         |         |    |    |         |         |         |           |   |                       |
| SSW                     | *     | *     | *      |         |         |         |    |    |         |         |         |           |   |                       |
| SW                      | *     | *     | *      |         |         |         |    |    |         |         |         |           |   |                       |
| WSW                     | *     | *     | *      |         |         |         |    |    |         |         |         |           |   |                       |
| W                       | *     | *     | *      |         |         |         |    |    |         |         |         |           |   |                       |
| WNW                     | *     | *     | *      |         |         |         |    |    |         |         |         |           |   |                       |
| NW                      | *     | *     | *      |         |         |         |    |    |         |         |         |           |   |                       |
| NNW                     | *     | *     | *      |         |         |         |    |    |         |         |         |           |   |                       |
| VARBL                   |       |       |        |         |         |         |    |    |         |         |         |           |   |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X  | X  | X       | X       | X       | X         | X |                       |
|                         | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *         | * |                       |

TOTAL NUMBER OF OBSERVATIONS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH  |
|---------|--------------|-----------|--------|
|         |              | CLASS     | HOURES |
|         |              |           |        |
|         |              | CONDITION |        |
|         |              |           |        |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------------------|
| N                       | *     | *     | *      |         |         |         |         |         |         |         |           | *                     |
| NNE                     | *     | *     | *      |         |         |         |         |         |         |         |           | *                     |
| NE                      | *     | *     | *      |         |         |         |         |         |         |         |           | *                     |
| ENE                     | *     | *     |        |         |         |         |         |         |         |         |           | *                     |
| E                       | *     | *     |        |         |         |         |         |         |         |         |           | *                     |
| ESE                     | *     | *     |        |         |         |         |         |         |         |         |           | *                     |
| SE                      | *     | *     |        |         |         |         |         |         |         |         |           | *                     |
| SSE                     | *     |       |        |         |         |         |         |         |         |         |           | *                     |
| S                       | *     |       |        |         |         |         |         |         |         |         |           | *                     |
| SSW                     | *     | *     |        |         |         |         |         |         |         |         |           | *                     |
| SW                      | *     |       |        |         |         |         |         |         |         |         |           | *                     |
| WSW                     | *     | *     |        |         |         |         |         |         |         |         |           | *                     |
| W                       | *     | *     |        |         |         |         |         |         |         |         |           | *                     |
| WNW                     | *     | *     |        |         |         |         |         |         |         |         |           | *                     |
| NW                      | *     | *     |        |         |         |         |         |         |         |         |           | *                     |
| NNW                     | *     | *     |        |         |         |         |         |         |         |         |           | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         |                       |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOURS |
|         |              | CONDITION |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | %  | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|----|-----------------------|
| N                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *  | *                     |
| NNE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *  | *                     |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *  | *                     |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *  | *                     |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *  | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *  | *                     |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *  | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *  | *                     |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *  | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *  | *                     |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *  | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *  | *                     |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *  | *                     |
| WNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *  | *                     |
| NW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *  | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *  | *                     |
| VARBL                   | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | X  | X                     |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | X  | X                     |
|                         | 1     | 2     | 3      | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11        | 12 | 13                    |

TOTAL NUMBER OF OBSERVATIONS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
|         |              |           |       |
|         |              | CLASS     |       |
|         |              |           | HOURS |
|         |              | CONDITION | EST.  |
|         |              |           |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------------------|
| N                       | .     | .     | .      |         |         |         |         |         |         |         | .         | .                     |
| NNE                     | .     | .     | .      | .       | .       |         |         |         |         |         | .         | .                     |
| NE                      | .     | .     | .      | .       | .       |         |         |         |         |         | .         | .                     |
| ENE                     | .     | .     | .      |         |         |         |         |         |         |         | .         | .                     |
| E                       | .     | .     | .      | .       | .       |         |         |         |         |         | .         | .                     |
| ESE                     | .     | .     | .      | .       | .       |         |         |         |         |         | .         | .                     |
| SE                      | .     |       |        |         |         |         |         |         |         |         | .         | .                     |
| SSE                     | .     | .     | .      | .       |         |         |         |         |         |         | .         | .                     |
| S                       | .     |       |        |         |         |         |         |         |         |         | .         | .                     |
| SSW                     | .     | .     | .      | .       |         |         |         |         |         |         | .         | .                     |
| SW                      | .     | .     | .      | .       |         |         |         |         |         |         | .         | .                     |
| VSW                     | .     | .     | .      | .       | .       |         |         |         |         |         | .         | .                     |
| W                       | .     | .     | .      | .       | .       |         |         |         |         |         | .         | .                     |
| WNW                     | .     | .     | .      | .       | .       |         |         |         |         |         | .         | .                     |
| NW                      | .     | .     | .      | .       | .       |         |         |         |         |         | .         | .                     |
| NNW                     | .     | .     | .      | .       | .       |         |         |         |         |         | .         | .                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         |                       |
|                         | 1.    | 1.    | 1.     | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.        |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

4

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |
| NNE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |
| WNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |
| NW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    |                       |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION   | STATION NAME | YEARS | MONTH |
|-----------|--------------|-------|-------|
|           |              | CLASS | HOURS |
| CONDITION |              |       |       |
|           |              |       |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| SSW                     | .     | .     | 1.     | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.   | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| VNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    |                       |
|                         | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOURS |
|         |              | CONDITION |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| VARBL                   | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| CALM                    | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4  
NATIONAL WEATHER SERVICE  
ATLANTA, GEORGIA  
ATLANTA, GA

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION<br>(KNTS)<br>DIR. | STATION NAME | YEARS | WINDS<br>SPEED<br>CLASS | CONDITION |       |        |         |         |         |         |         |         |         |      |   |                       |
|---------------------------|--------------|-------|-------------------------|-----------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
|                           |              |       |                         | 1 - 3     | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
| N                         |              |       |                         | .         | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | . |                       |
| NNE                       |              |       |                         | *         | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                       |
| NE                        |              |       |                         | *         | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                       |
| ENE                       |              |       |                         | *         | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                       |
| E                         |              |       |                         | *         | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                       |
| ESE                       |              |       |                         | *         | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                       |
| SE                        |              |       |                         | *         | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                       |
| SSE                       |              |       |                         | *         | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                       |
| S                         |              |       |                         | *         | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                       |
| SSW                       |              |       |                         | *         | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                       |
| SW                        |              |       |                         | *         | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                       |
| WSW                       |              |       |                         | *         | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                       |
| W                         |              |       |                         | *         | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                       |
| WNW                       |              |       |                         | *         | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                       |
| NW                        |              |       |                         | *         | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                       |
| NNW                       |              |       |                         | *         | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                       |
| VARBL                     |              |       |                         |           |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                      |              |       |                         | X         | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    | X |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOURS |
|         |              | CONDITION | LAST  |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| VARBL                   | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| CALM                    | +     | +     | +      | +       | +       | +       | +       | +       | +       | +       | +         | + | +                     |
|                         |       |       |        |         |         |         |         |         |         |         |           |   |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

## SURFACE WINDS

4

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS | MONTH |
|---------|--------------|-------|-------|
|         |              |       |       |
|         | CLASS        |       | HOURS |
|         |              |       | LAST  |
|         | CONDITION    |       |       |
|         |              |       |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 | 21 | 22 | 27 | 28 | 33 | 34 | 40 | 41 | 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|----|----|----|----|----|----|----|----|----|----|---------|-----------|---|-----------------------|
| N                       | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| NNE                     | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| NE                      | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| ENE                     | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| E                       | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| ESE                     | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| SE                      | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| SSE                     | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| S                       | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| SSW                     | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| SW                      | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| WSW                     | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| W                       | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| WWN                     | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| NW                      | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| NNW                     | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| VARBL                   | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |
| CALM                    | -     | -     | -      | -       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -       | -         | - | -                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION<br>(KNOTS)<br>DIR. | STATION NAME |       |        |         |         |         |    |    |         |         |         |    | YEARS | MEAN<br>WIND<br>SPEED |
|----------------------------|--------------|-------|--------|---------|---------|---------|----|----|---------|---------|---------|----|-------|-----------------------|
|                            | 1 - 3        | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 | 33 | 34 - 40 | 41 - 47 | 48 - 55 | 56 | %     |                       |
| N                          |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| NNE                        |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| NE                         |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| ENE                        |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| E                          |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| ESE                        |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| SE                         |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| SSE                        |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| S                          |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| SSW                        |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| SW                         |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| WSW                        |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| W                          |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| WNW                        |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| NW                         |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| NNW                        |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| VARBL                      |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |
| CALM                       |              |       |        |         |         |         |    |    |         |         |         |    |       |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

E  
4

| SPEED<br>KNTS | DIR   |
|---------------|-------|
| -             | N     |
| -             | NNE   |
| -             | NE    |
| -             | ENE   |
| -             | E     |
| -             | ESE   |
| -             | SE    |
| -             | SSE   |
| -             | S     |
| -             | SSW   |
| -             | SW    |
| -             | WSW   |
| -             | W     |
| -             | WNW   |
| -             | NW    |
| -             | NNW   |
| -             | VARBL |
| -             | CALM  |

SMO

## SURFACE WINDS

## ENCY OF WIND ND SPEED BSERVATIONS)

764

HOUSERS - 37

27 18 33 34 41 47 48 55 ≥ 56 %

**TOTAL NUMBER OF OBSERVATIONS**

1

1948-1950

**PERCENTAGE FREQUENCY  
DIRECTION  
(FROM HOURLY)**

— 10 —

— 1 —

20

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 |
|-------------------------|-------|-------|--------|---------|---------|
| N                       | -     | -     | -      | -       | -       |
| NNE                     | -     | -     | -      | -       | -       |
| NE                      | -     | -     | -      | -       | -       |
| ENE                     | -     | -     | -      | -       | -       |
| E                       | -     | -     | -      | -       | -       |
| ESE                     | -     | -     | -      | -       | -       |
| SE                      | -     | -     | -      | -       | -       |
| SSE                     | -     | -     | -      | -       | -       |
| S                       | -     | -     | -      | -       | -       |
| SSW                     | -     | -     | -      | -       | -       |
| SW                      | -     | -     | -      | -       | -       |
| WSW                     | -     | -     | -      | -       | -       |
| W                       | -     | -     | -      | -       | -       |
| WNW                     | -     | -     | -      | -       | -       |
| NW                      | -     | -     | -      | -       | -       |
| NNW                     | -     | -     | -      | -       | -       |
| VARB:                   | -     | -     | -      | -       | -       |
| CALM                    | -     | -     | -      | -       | -       |

SMOS

4

NATIONAL WEATHER SERVICE  
ATLANTIC CITY  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOURS |
|         |              | CONDITION |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| WNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| VARBL                   | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| CALM                    | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
U.S. NAVY  
ADMIRALTY CHARTS

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS | MONTH        |
|---------|--------------|-------|--------------|
|         |              | CLASS | HOURS/1 LIST |
|         | CONDITION    |       |              |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | *     | *     | *      | *       |         |         |         |         |         |         |      |   | *                     |
| NNE                     |       |       | *      | *       | *       |         |         |         |         |         |      |   | *                     |
| NE                      | *     |       | *      | *       | *       |         |         |         |         |         |      |   | *                     |
| ENE                     | *     |       | *      | *       | *       |         |         |         |         |         |      |   | *                     |
| E                       | *     |       | *      | *       | *       |         |         |         |         |         |      |   | *                     |
| ESE                     |       | *     | *      | *       | *       |         |         |         |         |         |      |   | *                     |
| SE                      |       | *     | *      | *       | *       |         |         |         |         |         |      |   | *                     |
| SSE                     |       | *     | *      | *       | *       |         |         |         |         |         |      |   | *                     |
| S                       | *     |       | *      | *       | *       |         |         |         |         |         |      |   | *                     |
| SSW                     |       | *     | *      | *       | *       |         |         |         |         |         |      |   | *                     |
| SW                      | *     |       | *      | *       | *       |         |         |         |         |         |      |   | *                     |
| WSW                     |       | *     | *      | *       | *       |         |         |         |         |         |      |   | *                     |
| W                       |       | *     | *      | *       | *       |         |         |         |         |         |      |   | *                     |
| NNW                     |       | *     | *      | *       | *       |         |         |         |         |         |      |   | *                     |
| NW                      |       | *     | *      | *       | *       |         |         |         |         |         |      |   | *                     |
| NNW                     |       | *     | *      | *       | *       |         |         |         |         |         |      |   | *                     |
| VARBL                   | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| CALM                    | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DEPARTMENT OF DEFENSE  
ASHEVILLE, NC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS | MONTH |
|---------|--------------|-------|-------|
|         |              |       |       |
|         |              | CLASS | HOURS |
|         |              |       | LST   |
|         | CONDITION    |       |       |
|         |              |       |       |

| SPEED<br>(KNOTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|--------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                        | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NE                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ENE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| E                        | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ESE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SE                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| S                        | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SW                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| WSW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| W                        | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NW                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| VARI                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| CALM                     | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | X | X                     |
|                          | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |

TOTAL NUMBER OF OBSERVATIONS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
|         |              |           |       |
|         |              | CLASS     | HOURS |
|         |              |           | LST   |
|         |              | CONDITION |       |
|         |              |           |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------------------|
| N                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| NNE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| WNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| NW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |           |                       |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS | MONTH |
|---------|--------------|-------|-------|
|         |              | CLASS | HOURS |
|         | CONDITION    |       |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|--------------------|
| N                       | *     | *     | *      |         |         |         |         |         |         |         |      | *                  |
| NNE                     | *     | *     |        |         |         |         |         |         |         |         |      | *                  |
| NE                      | *     |       |        |         |         |         |         |         |         |         |      | *                  |
| ENE                     | *     | *     |        |         |         |         |         |         |         |         |      | *                  |
| E                       | *     | *     |        |         | *       |         |         |         |         |         |      | *                  |
| ESE                     | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                  |
| SE                      | *     | *     | *      |         | *       |         |         |         |         |         |      | *                  |
| SSE                     | *     | *     | *      |         |         |         |         |         |         |         |      | *                  |
| S                       | *     | *     | *      |         |         |         |         |         |         |         |      | *                  |
| SSW                     | *     | *     | *      |         |         |         |         |         |         |         |      | *                  |
| SW                      | *     | *     | *      |         |         |         |         |         |         |         |      | *                  |
| WSW                     | *     | *     | *      |         |         |         |         |         |         |         |      | *                  |
| W                       |       |       |        |         |         |         |         |         |         |         |      | *                  |
| WNW                     | *     | *     | *      |         |         |         |         |         |         |         |      | *                  |
| NW                      | *     | *     | *      |         |         |         |         |         |         |         |      | *                  |
| NNW                     | *     | *     | *      |         |         |         |         |         |         |         |      | *                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |                    |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |                    |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DEPARTMENT  
ASHEVILLE, NC

4

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION   | STATION N / E | YEARS | MONTH |
|-----------|---------------|-------|-------|
|           |               | CLASS | HOURS |
| CONDITION |               |       |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NNE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| VNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    | X | X                     |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## **SURFACE WINDS**

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

STATION STATION NAME YEARS MONTH  
CLASS HOUSES \$  
CONDITION

**TOTAL NUMBER OF OBSERVATIONS**

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | NORTH     |
|---------|--------------|-----------|-----------|
|         |              | CLASS     | HOURS > 5 |
|         |              | CONDITION |           |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| NNE                     | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| NE                      | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| ENE                     | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| E                       | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| ESE                     | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| SE                      | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| SSE                     | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| S                       | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| SSW                     | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| SW                      | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| WSW                     | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| W                       | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| VNW                     | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| NW                      | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| NNW                     | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         |   |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

## SURFACE WINDS

4

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | HOLES |
|---------|--------------|-----------|-------|
|         |              |           |       |
|         |              | CLASS     |       |
|         |              | CONDITION |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| NNE                     | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| NE                      | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| ENE                     |       |       | *      |         |         |         |         |         |         |         |           |   |                       |
| E                       |       |       | *      |         |         |         |         |         |         |         |           |   |                       |
| ESE                     |       | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| SE                      |       | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| SSE                     |       | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| S                       |       | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| SSW                     |       | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| SW                      |       | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| WSW                     |       | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| W                       |       | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| WNW                     |       | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| NW                      |       | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| NNW                     |       | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| VARBL                   |       | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| CALM                    | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

## **SURFACE WINDS**

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

**TOTAL NUMBER OF OBSERVATIONS**

4

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION<br>(NAME) | STATION NAME | TIME | CLASS | CONDITION | PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED |       |        |         |         |         |         |         |         |         |      |   | MEAN<br>WIND<br>SPEED |
|-------------------|--------------|------|-------|-----------|--|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
|                   |              |      |       |           | 1 - 3  | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % |                       |
| N                 |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNE               |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| NE                |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| ENE               |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| E                 |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| ESE               |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| SE                |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSE               |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| S                 |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| SSW               |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW               |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| W                 |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| WNW               |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| NW                |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| NNW               |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| VARBL             |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM              |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |
|                   |              |      |       |           |  |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

SMC

4

NOAA GEN. SURVEY  
1950-1951  
Alaska

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION                 | STATION NAME | YEARS | WIND DIRECTION |         |         |         |         |         |         |         |      |                |                |                | MEAN<br>WIND<br>SPEED |  |
|-------------------------|--------------|-------|----------------|---------|---------|---------|---------|---------|---------|---------|------|----------------|----------------|----------------|-----------------------|--|
|                         |              |       | CLASS          |         |         |         |         |         |         |         |      |                |                |                |                       |  |
|                         |              |       | CONDITION      |         |         |         |         |         |         |         |      |                |                |                |                       |  |
| SPEED<br>(KNTS)<br>DIR. | 1 - 3        | 4 - 6 | 7 - 10         | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | A <sub>3</sub> | A <sub>4</sub> | A <sub>5</sub> | A <sub>6</sub>        |  |
| N                       | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| NNE                     | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| NE                      | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| ENE                     | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| E                       | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| ESE                     | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| SE                      | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| SSE                     | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| S                       | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| SSW                     | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| SW                      | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| WSW                     | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| W                       | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| WNW                     | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| NW                      | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| NNW                     | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| VARBL                   | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
| CALM                    | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |
|                         | *            | *     | *              | *       | *       | *       | *       | *       | *       | *       | *    | *              | *              | *              | *                     |  |

TOTAL NUMBER OF OBSERVATIONS

SAV 6

AI A150 345

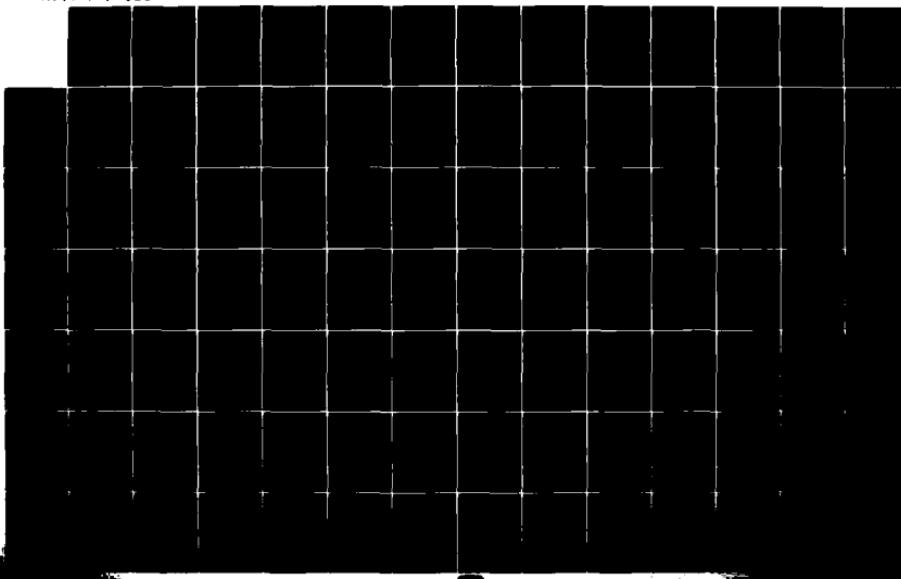
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
ROTA SPAIN(U) NAVAL OCEANOGRAPHY COMMAND DETACHMENT  
ASHEVILLE NC SEP 84

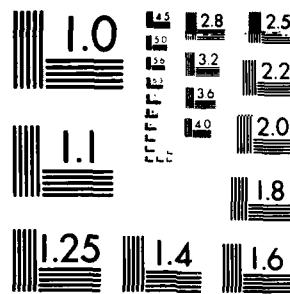
214

UNCLASSIFIED

F/G 4/2

NL





MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS 1963

4

**NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC**

## **SURFACE WINDS**

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

|         |              |       |               |
|---------|--------------|-------|---------------|
| STATION | STATION NAME | YEARS | NORTH         |
|         |              |       |               |
|         | CLASS        |       | HOURS : L S T |
|         |              |       |               |
|         | CONDITION    |       |               |
|         |              |       |               |

**TOTAL NUMBER OF OBSERVATIONS**

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## **SURFACE WINDS**

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

24566443

12

| STATION | STATION NAME | YEARS | MONTH       |
|---------|--------------|-------|-------------|
|         | TLL F        |       | -           |
|         | CLASS        |       | HOURS L S T |
|         | CONDITION    |       |             |
|         |              |       |             |

**TOTAL NUMBER OF OBSERVATIONS**

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

4

294641Z

125

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS | MONTH   |
|---------|--------------|-------|---------|
| ALL     | ALL          | 77    | L       |
|         |              |       | HOURELY |
|         | CLASS        |       | ST      |
|         | CONDITION    |       |         |
|         |              |       |         |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %  | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|----|-----------------------|
| N                       | .     | 1.    | .      | .       | .       | .       | .       | .       | .       | .       | .    | .  | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .  | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .  | .                     |
| ENE                     | .     | 1.    | .      | .       | .       | .       | .       | .       | .       | .       | .    | .  | .                     |
| E                       | .     | 1.    | 1.     | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.   | .  | .                     |
| ESE                     | .     | .     | 1.     | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.   | 1. | .                     |
| SE                      | .     | .     | 1.     | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.   | 1. | .                     |
| SSE                     | .     | .     | 1.     | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.   | 1. | .                     |
| S                       | .     | 1.    | 2.     | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.   | 1. | .                     |
| SSW                     | .     | 1.    | 1.     | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.   | 1. | .                     |
| SW                      | .     | 1.    | 1.     | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.   | 1. | .                     |
| WSW                     | .     | 1.    | 1.     | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.   | 1. | .                     |
| W                       | .     | .     | .      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.   | 1. | .                     |
| WNW                     | .     | 1.    | 1.     | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.   | 1. | .                     |
| NW                      | .     | 1.    | 1.     | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.   | 1. | .                     |
| NNW                     | .     | 1.    | 1.     | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.   | 1. | .                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |    | .                     |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    | .  | .                     |
|                         | 1.    | 1.    | 1.     | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.      | 1.   | 1. | .                     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

7155-542

125

| STATION | STATION NAME | YEARS     | NORTH         |
|---------|--------------|-----------|---------------|
|         |              |           |               |
|         |              | CLASSE    | HOURS 12 S.T. |
|         |              | CONDITION |               |
|         |              |           |               |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | %  | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|----|-----------------------|
| N                       | *     | *     |        |         |         |         |         |         |         |         |           | *  |                       |
| NNE                     |       | *     |        |         |         |         |         |         |         |         |           | *  |                       |
| NE                      | *     | *     | *      |         |         |         |         |         |         |         |           | *  |                       |
| ENE                     | *     |       |        |         |         |         |         |         |         |         |           | *  |                       |
| E                       | *     | *     | *      |         |         |         |         |         |         |         |           | 1* |                       |
| ESE                     | *     | *     | *      |         |         |         |         |         |         |         |           | *  |                       |
| SE                      | *     | *     | *      |         |         |         |         |         |         |         |           | *  |                       |
| SSE                     | *     | *     | *      |         |         |         |         |         |         |         |           | *  |                       |
| S                       | *     | 4*    | 1*     |         |         |         |         |         |         |         |           | *  |                       |
| SSW                     | *     | 1*    |        |         |         |         |         |         |         |         |           | *  |                       |
| SW                      | *     | *     | *      |         |         |         |         |         |         |         |           | *  |                       |
| WSW                     | *     | *     | *      |         |         |         |         |         |         |         |           | 5* |                       |
| W                       | *     | *     | *      |         | 1*      |         |         |         |         |         |           | 1* |                       |
| WNW                     | 1*    | 1*    | 1*     | 1*      | *       |         |         |         |         |         |           | 5* |                       |
| NW                      | *     | *     | *      | *       | 1*      |         |         |         |         |         |           | 5* |                       |
| NNW                     | *     | *     | *      | *       | *       |         |         |         |         |         |           | *  |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |    |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |           | 1* |                       |
|                         | *     | 1*    | 1*     | 11*     | 1*      | *       |         |         |         |         |           | 1* |                       |
|                         |       |       |        |         |         |         |         |         |         |         |           |    |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4  
NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

| STATION                 | STATION NAME | YEARS |        |         |         |         |         |         |         |         |      | MONTH                      |
|-------------------------|--------------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|----------------------------|
|                         |              | ALL   | FAIR   |         |         |         |         |         |         |         |      |                            |
|                         |              | CLASS |        |         |         |         |         |         |         |         |      |                            |
| CONDITION               |              |       |        |         |         |         |         |         |         |         |      |                            |
| SPEED<br>(KNTS)<br>DIR. | 1 - 3        | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %<br>MEAN<br>WIND<br>SPEED |
| N                       | 0            | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |
| NNE                     | 0            | 1     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |
| NE                      | 0            | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |
| ENE                     | 0            | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |
| E                       | 0            | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |
| ESE                     | 0            | 1     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |
| SE                      | 0            | 1     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |
| SSE                     | 0            | 1     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |
| S                       | 0            | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |
| SSW                     | 0            | 1     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |
| SW                      | 0            | 1     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |
| WSW                     | 0            | 2     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |
| W                       | 0            | 0     | 1      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |
| WNW                     | 0            | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |
| NW                      | 0            | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |
| NNW                     | 0            | 0     | 0      | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |
| VARSL                   |              |       |        |         |         |         |         |         |         |         |      |                            |
| CALM                    | X            | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    | 1                          |
|                         | 0            | 7     | 1      | 7       | 0       | 0       | 0       | 0       | 0       | 0       | 0    | 0                          |

TOTAL NUMBER OF OBSERVATIONS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## **SURFACE WINDS**

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ NORTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS (L S T)  
CONDITION \_\_\_\_\_

**TOTAL NUMBER OF OBSERVATIONS**

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## **SURFACE WINDS**

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

|         |              |       |           |
|---------|--------------|-------|-----------|
| STATION | STATION NAME | YEARS | NORTH     |
|         | A. A. C.     |       |           |
|         | CLASS        |       | HOUSE LST |
|         | CONDITION    |       |           |

**TOTAL NUMBER OF OBSERVATIONS**

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH        |
|---------|--------------|-----------|--------------|
|         | A. A.        | CLASS     | HOURS 11-5 T |
|         |              | CONDITION |              |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %  | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|----|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |    |                       |
| NNE                     | *     |       | *      |         |         |         |         |         |         |         |      | *  | *                     |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |    |                       |
| ENE                     | *     | *     | *      |         |         |         |         |         |         |         |      | *  | *                     |
| E                       |       |       | *      |         |         |         |         |         |         |         |      | *  | *                     |
| ESE                     | *     | *     | *      | *       | 1*      |         |         |         |         |         |      | *  | *                     |
| SE                      | *     | *     | *      | *       | *       | *       |         |         |         |         |      | *  | *                     |
| SSE                     | *     | *     | *      | *       | 1*      |         |         |         |         |         |      | *  | *                     |
| S                       | *     | *     | *      | *       | *       | *       |         |         |         |         |      | *  | *                     |
| SSW                     | *     | *     | *      | *       | 1*      |         |         |         |         |         |      | 11 | *                     |
| SW                      | *     | *     | *      | *       | *       | 1*      |         |         |         |         |      | 11 | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | 7       |         |         |         |      | 11 | *                     |
| W                       | *     | *     | 1      | *       | *       | *       | *       |         |         |         |      | *  | *                     |
| WNW                     | *     | *     | *      | *       | *       | *       | *       |         |         |         |      | *  | *                     |
| NW                      |       |       |        |         |         |         |         |         |         |         |      | *  | *                     |
| NNW                     |       |       |        |         | *       |         |         |         |         |         |      | *  | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      | *  |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | *  |                       |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | 1  | *                     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION                      | STATION NAME | YEARS | MONTH  | HOURS IN ST. |         |         |         |         |         |         |           |         |         | MEAN<br>WIND<br>SPEED |              |   |  |  |
|------------------------------|--------------|-------|--------|--------------|---------|---------|---------|---------|---------|---------|-----------|---------|---------|-----------------------|--------------|---|--|--|
|                              |              |       |        | 1 - 3        | 4 - 6   | 7 - 10  | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40   | 41 - 47 | 48 - 55 | $\geq 56$             |              |   |  |  |
| CLASS                        |              |       |        |              |         |         |         |         |         |         |           |         |         | HOURS IN ST.          |              |   |  |  |
| CONDITION                    |              |       |        |              |         |         |         |         |         |         |           |         |         |                       | HOURS IN ST. |   |  |  |
|                              |              |       |        |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| SPEED<br>(KNTS)<br>DIR.      | 1 - 3        | 4 - 6 | 7 - 10 | 11 - 16      | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | %       |         |                       |              |   |  |  |
| N                            |              |       |        |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| NNE                          |              |       |        |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| NE                           |              |       |        |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| ENE                          |              |       |        |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| E                            | *            | *     |        |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| ESE                          |              | *     |        |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| SE                           |              |       | *      |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| SSE                          |              |       | *      |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| S                            | *            |       | *      |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| SSW                          | *            |       | *      |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| SW                           | *            |       | *      |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| WSW                          | *            | *     | *      |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| W                            | *            | *     | *      |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| WNW                          | *            |       | *      |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| NW                           |              |       | *      |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| NNW                          |              |       | *      |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| VARBL                        |              |       |        |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |
| CALM                         | X            | X     | X      | X            | X       | X       | X       | X       | X       | X       | X         | X       | X       | X                     | X            | X |  |  |
|                              | *            | 11*   | 47*    | 17*          | *       | *       | *       | *       | *       | *       | *         | *       | *       | *                     | *            | * |  |  |
| TOTAL NUMBER OF OBSERVATIONS |              |       |        |              |         |         |         |         |         |         |           |         |         |                       |              |   |  |  |

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS | MONTH |
|---------|--------------|-------|-------|
|         |              | CLASS | HOURS |
|         |              |       |       |
|         |              |       |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |      |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .    | .                     |
| NW                      |       |       |        |         |         |         |         |         |         |         |      |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    |                       |
|                         | 1     | 0     | 7      | 4       | 0       | 7       | 1       | 0       | 7       | 0       | 7    |                       |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DEPARTMENT  
ASHEVILLE, NC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOURS |
|         |              | CONDITION | LIST  |
|         |              |           |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| NNE                     | *     |       | *      |         |         |         |         |         |         |         |           | * |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| ENE                     | *     |       |        |         |         |         |         |         |         |         |           |   |                       |
| E                       | *     |       |        |         |         |         |         |         |         |         |           |   |                       |
| ESE                     |       | *     |        | *       |         |         |         |         |         |         |           |   |                       |
| SE                      | *     |       | *      |         |         |         |         |         |         |         |           |   |                       |
| SSE                     | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| S                       | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| SSW                     | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| SW                      | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| WSW                     | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| W                       | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| VNW                     | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| NW                      | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| NNW                     | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |           |   |                       |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * |                       |

TOTAL NUMBER OF OBSERVATIONS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOURS |
|         |              | CONDITION | LAST  |

| SPEED<br>(KNOTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|--------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                        | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NE                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ENE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| E                        | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ESE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SE                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| S                        | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SW                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| WSW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| W                        | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| WNW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NW                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| VARBL                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | X | X                     |
| CALM                     | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | X | X                     |
|                          | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## **SURFACE WINDS**

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

| STATION | STATION NAME | YEARS | WORTH        |
|---------|--------------|-------|--------------|
|         |              |       |              |
|         | CLASS        |       | HOURS WORKED |
|         | CONDITION    |       |              |
|         |              |       |              |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| NNE                     | *     | *     |        |         |         |         |         |         |         |         |           |   | *                     |
| NE                      | *     |       |        |         |         |         |         |         |         |         |           |   | *                     |
| ENE                     | *     |       |        |         |         |         |         |         |         |         |           |   | *                     |
| E                       | *     | *     | *      | *       |         |         |         |         |         |         |           |   | *                     |
| ESE                     | *     | *     | *      | *       | *       | 1*      | *       |         |         |         |           |   | *                     |
| SE                      | *     | *     | 1*     | 1*      | 1*      | *       |         |         |         |         |           |   | *                     |
| SSE                     | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| S                       | *     | *     | 1*     | *       | *       |         |         |         |         |         |           |   | *                     |
| SSW                     | *     | *     |        |         |         |         |         |         |         |         |           |   | *                     |
| SW                      | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| WSW                     | *     | 1*    | *      | *       | *       |         |         |         |         |         |           |   | *                     |
| W                       | *     | *     | 1*     | *       | *       |         |         |         |         |         |           |   | *                     |
| WNW                     | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| NW                      | *     | *     | *      |         | *       |         |         |         |         |         |           |   | *                     |
| NNW                     | *     | *     | *      | *       |         |         |         |         |         |         |           |   | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |           |   | *                     |
|                         | *     | *     | 1*     | 1*      | 1*      | 7       | 1*      | *       |         |         |           |   | *                     |

**TOTAL NUMBER OF OBSERVATIONS**

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS | MONTH       |
|---------|--------------|-------|-------------|
|         |              |       |             |
|         | CLASS        |       | HOURS (LST) |
|         |              |       |             |
|         | CONDITION    |       |             |
|         |              |       |             |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | %  | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|----|-----------------------|
| N                       | .     | .     |        |         |         |         |         |         |         |         |           | .  | .                     |
| NNE                     | .     | .     | .      |         |         |         |         |         |         |         |           | .  | .                     |
| NE                      | .     |       |        |         |         |         |         |         |         |         |           | .  | .                     |
| ENE                     | .     | .     | .      |         |         |         |         |         |         |         |           | .  | .                     |
| E                       | .     | .     | .      | .       | .       |         |         |         |         |         |           | .  | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       |         |         |         |         |           | .  | .                     |
| SE                      | .     | .     | .      | .       | .       |         |         |         |         |         |           | .  | .                     |
| SSE                     | .     | .     | .      |         |         |         |         |         |         |         |           | .  | .                     |
| S                       | .     | .     | .      | .       |         |         |         |         |         |         |           | .  | .                     |
| SSW                     | .     | .     | .      |         |         |         |         |         |         |         |           | .  | .                     |
| SW                      | .     | .     |        |         |         |         |         |         |         |         |           | 1. | .                     |
| WSW                     | .     | .     | .      | .       |         |         |         |         |         |         |           | .  | .                     |
| W                       | .     | .     | .      |         |         |         |         |         |         |         |           | .  | .                     |
| WNW                     | .     | .     | .      |         |         |         |         |         |         |         |           | .  | .                     |
| NW                      | .     | .     | .      | .       |         |         |         |         |         |         |           | .  | .                     |
| NNW                     | .     | .     | .      |         |         |         |         |         |         |         |           | .  | .                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |    |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |           |    | .                     |
|                         | .     | .     | 1.     | .       | .       | .       | .       | .       | .       | .       | .         | .  | .                     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | NORTH      |
|---------|--------------|-----------|------------|
|         |              |           |            |
|         |              | CLASS     | HOURS LAST |
|         |              | CONDITION |            |
|         |              |           |            |
|         |              |           |            |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| NNE                     | *     | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| NE                      |       | *     | *      |         |         |         |         |         |         |         |           | * | *                     |
| ENE                     | *     |       | *      |         |         |         |         |         |         |         |           | * | *                     |
| E                       | *     | *     | *      | *       | *       |         |         |         |         |         |           | * | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       |         |         |         |         |           | * | *                     |
| SE                      | *     | *     | *      | *       | *       | *       |         |         |         |         |           | * | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       |         |         |         |         |           | * | *                     |
| S                       | *     | *     | *      | *       | *       | *       |         |         |         |         |           | * | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       |         |         |         |         |           | * | *                     |
| SW                      | *     | *     | *      | *       | *       | *       |         |         |         |         |           | * | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       |         |         |         |         |           | * | *                     |
| W                       | *     | *     | *      | *       | *       | *       |         |         |         |         |           | * | *                     |
| WNW                     | *     | *     | *      | *       | *       | *       |         |         |         |         |           | * | *                     |
| NW                      | *     | *     | *      | *       | *       | *       |         |         |         |         |           | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       |         |         |         |         |           | * | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | * | *                     |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

## SURFACE WINDS

NATIONAL WEATHER SERVICE  
AT FAIRBANKS  
ALASKA 99701

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION                 | STATION NAME | YEARS | WORTH | CLASSE |       |        |         |         |         |         |         |         |         | HOURS / 1.51          |
|-------------------------|--------------|-------|-------|--------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------------------|
|                         |              |       |       | 1 - 3  | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 |                       |
| CONDITION               |              |       |       |        |       |        |         |         |         |         |         |         |         |                       |
| SPEED<br>(KNTS)<br>DIR. |              |       |       |        |       |        |         |         |         |         |         |         |         | MEAN<br>WIND<br>SPEED |
| N                       | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |
| NNE                     | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |
| NE                      | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |
| ENE                     | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |
| E                       | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |
| ESE                     | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |
| SE                      | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |
| SSE                     | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |
| S                       | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |
| SSW                     | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |
| SW                      | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |
| WSW                     | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |
| W                       | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |
| WNW                     | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |
| NW                      | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |
| NNW                     | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |
| VARBL                   |              |       |       |        |       |        |         |         |         |         |         |         |         |                       |
| CALM                    | X            | X     | X     | X      | X     | X      | X       | X       | X       | X       | X       | X       | X       | X                     |
|                         | .            | .     | .     | .      | .     | .      | .       | .       | .       | .       | .       | .       | .       | .                     |

TOTAL NUMBER OF OBSERVATIONS

4  
1  
1000410  
NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_  
MONTH \_\_\_\_\_ HOURS (L.E.T.) \_\_\_\_\_  
CLASS \_\_\_\_\_ CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %  | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|----|-----------------------|
| N                       | .     |       |        |         |         |         |         |         |         |         |      |    |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |      |    |                       |
| NE                      |       |       | .      |         |         |         |         |         |         |         |      |    |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |      |    |                       |
| E                       | .     | .     | .      | .       | 7       | 7       |         |         |         |         |      | 1  |                       |
| ESE                     | .     | .     | .      | 1       | 1       | 1       |         |         |         |         |      | 1  |                       |
| SE                      |       |       | .      | .       | .       | .       |         |         |         |         |      | 1  |                       |
| SSE                     | .     | .     | .      | 1       | 1       | 1       | 1       |         |         |         |      | 11 |                       |
| S                       | .     | .     | .      | 1       | 1       |         |         |         |         |         |      | 7  |                       |
| SSW                     | .     | .     | .      | 1       | 1       |         |         |         |         |         |      | 1  |                       |
| SW                      | .     |       | .      |         |         |         |         |         |         |         |      | 1  |                       |
| WSW                     | .     | .     | .      | 1       | 1       |         |         |         |         |         |      | 1  |                       |
| W                       | .     | 1     | 1      | 1       | 1       | 1       |         |         |         |         |      | 1  |                       |
| WNW                     | .     | .     | .      | .       | .       | .       |         |         |         |         |      | 1  |                       |
| NW                      | .     | .     | .      | 1       | 1       |         |         |         |         |         |      | 1  |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      |    |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |    |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    | 1  |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS | MONTH       |
|---------|--------------|-------|-------------|
|         |              | CLASS | HOURS (LST) |
|         | CONDITION    |       |             |
|         |              |       |             |
|         |              |       |             |
|         |              |       |             |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| NE                      |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| E                       |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| ESE                     |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| SE                      |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| SSE                     |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| S                       |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| SSW                     |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| WSW                     |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| W                       |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| WNW                     |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| NW                      |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| NNW                     |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | X |                       |
|                         | *     | 11    | *      | 4       | *       | 7       | *       | *       | *       | *       | *         | * | 1                     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

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4

14565412

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC**SURFACE WINDS****PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_ LIST \_\_\_\_\_  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | %<br>MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|----------------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |           |                            |
| NNE                     |       |       |        |         |         |         |         |         |         |         |           |                            |
| NE                      |       |       |        |         |         |         |         |         |         |         |           |                            |
| ENE                     |       |       |        |         |         |         |         |         |         |         |           |                            |
| E                       |       |       |        |         |         |         |         |         |         |         |           |                            |
| ESE                     |       |       |        |         |         |         |         |         |         |         |           |                            |
| SE                      |       |       |        |         |         |         |         |         |         |         |           |                            |
| SSE                     |       |       |        |         |         |         |         |         |         |         |           |                            |
| S                       |       |       |        |         |         |         |         |         |         |         |           |                            |
| SSW                     |       |       |        |         |         |         |         |         |         |         |           |                            |
| SW                      |       |       |        |         |         |         |         |         |         |         |           |                            |
| WSW                     |       |       |        |         |         |         |         |         |         |         |           |                            |
| W                       |       |       |        |         |         |         |         |         |         |         |           |                            |
| WNW                     |       |       |        |         |         |         |         |         |         |         |           |                            |
| NW                      |       |       |        |         |         |         |         |         |         |         |           |                            |
| NNW                     |       |       |        |         |         |         |         |         |         |         |           |                            |
| VARI                    |       |       |        |         |         |         |         |         |         |         |           |                            |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         |                            |
|                         | 0     | 1     | 0      | 0       | 0       | 1       | 0       | 0       | 0       | 0       | 0         |                            |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

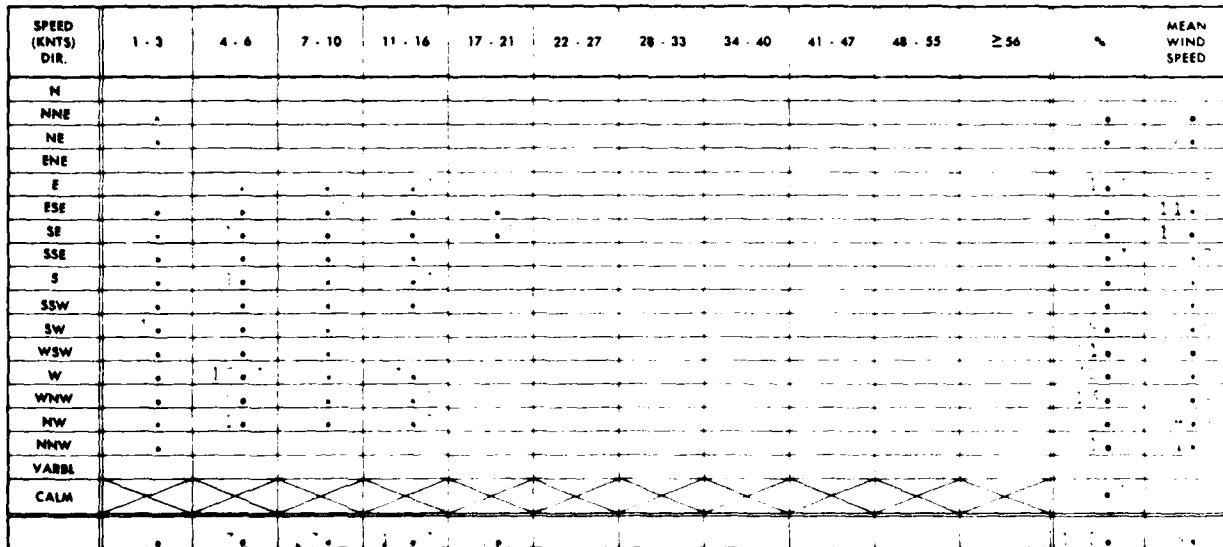
SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS | MONTH |
|---------|--------------|-------|-------|
|         | CLASS        |       | HOURS |
|         | CONDITION    |       | LENT  |



TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
| L.L.    |              | CLAS      | HOURS |
|         |              | CONDITION | LST   |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     | *      | *       |         |         |         |         |         |         |           |   |                       |
| NNE                     | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| NE                      | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| ENE                     | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| E                       | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| ESE                     | *     | *     | *      |         |         |         | *       |         |         |         |           |   |                       |
| SE                      | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| SSE                     | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| S                       | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| SSW                     | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| SW                      | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| WSW                     | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| W                       | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| WNW                     | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| NW                      | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| NNW                     | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         |   |                       |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         |   |                       |

TOTAL NUMBER OF OBSERVATIONS

11  
4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION                 | STATION NAME | YEARS | MONTH  | HOURLY LIST |         |         |         |         |         |         |      |   |                       |
|-------------------------|--------------|-------|--------|-------------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
|                         |              |       |        | CLASS       |         |         |         |         |         |         |      |   |                       |
| CONDITION               |              |       |        |             |         |         |         |         |         |         |      |   |                       |
| SPEED<br>(KNTS)<br>DIR. | 1 - 3        | 4 - 6 | 7 - 10 | 11 - 16     | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
| N                       | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| NNE                     | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| NE                      | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| ENE                     | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| E                       | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| ESE                     | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| SE                      | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| SSE                     | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| S                       | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| SSW                     | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| SW                      | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| WSW                     | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| W                       | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| WNW                     | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| NW                      | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| NNW                     | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| VARBL                   | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |
| CALM                    | X            | X     | X      | X           | X       | X       | X       | X       | X       | X       | X    | X | X                     |
|                         | -            | -     | -      | -           | -       | -       | -       | -       | -       | -       | -    | - | -                     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

4  
NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_ L E T \_\_\_\_\_  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| NNE                     | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| NE                      | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| ENE                     | *     | *     |        |         |         |         |         |         |         |         |      | *                     |
| E                       | *     | *     |        |         |         |         |         |         |         |         |      | *                     |
| ESE                     | *     | *     | *      | *       |         |         |         |         |         |         |      | *                     |
| SE                      | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| SSE                     | *     | *     | *      | *       |         |         |         |         |         |         |      | *                     |
| S                       | *     | *     | *      | *       |         |         |         |         |         |         |      | *                     |
| SSW                     | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| SW                      | *     | *     |        |         |         |         |         |         |         |         |      | *                     |
| WSW                     | *     |       |        |         |         |         |         |         |         |         |      | *                     |
| W                       | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| NNW                     | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| NW                      | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| NNW                     | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    |                       |
|                         | *     | *     | *      | *       | *       |         |         |         |         |         |      |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4  
NAVAL WEATHER STATION  
DETACHMENT  
ASHEVILLE NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH     |
|---------|--------------|-----------|-----------|
|         |              |           |           |
|         | CLASS        |           | HOURS LST |
|         |              | CONDITION |           |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| NNE                     | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| NE                      | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| ENE                     | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| E                       | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| ESE                     | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| SE                      | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| SSE                     | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| S                       | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| SSW                     | *     | *     | *      |         |         |         |         |         |         |         |           |   |                       |
| SW                      | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| WSW                     | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| W                       | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| WNW                     | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| NW                      | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| NNW                     | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| VARBL                   | *     | *     |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | X |                       |

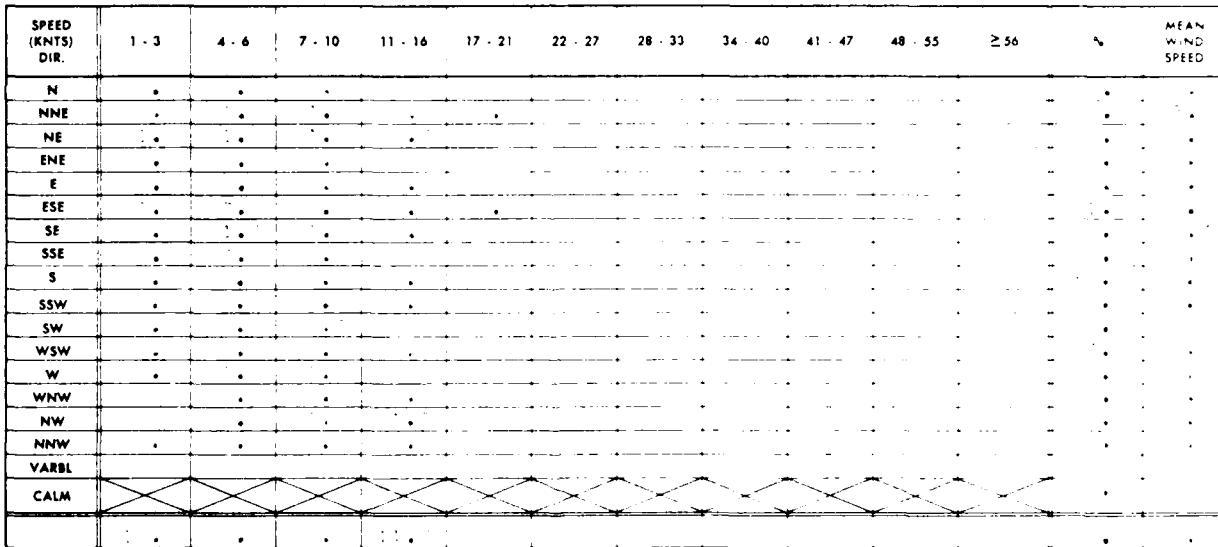
TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE  
U.S. NAVY  
ADMIRALTY CHARTS

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH  |
|---------|--------------|-----------|--------|
|         |              | CLASS     | HOURS  |
|         |              | CONDITION | 1 5 10 |



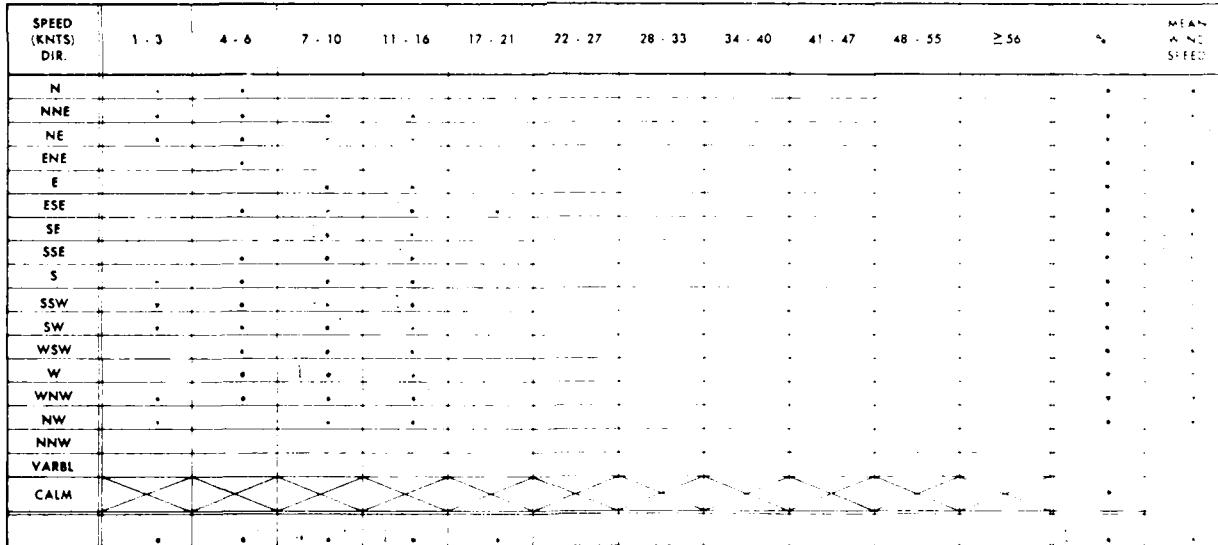
TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER STATION  
AT THE HARBOR  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOURS |
|         |              | CONDITION |       |



TOTAL NUMBER OF OBSERVATIONS

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4NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC**SURFACE WINDS****PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

| STATION | STATION NAME | YEARS | MONTH       |
|---------|--------------|-------|-------------|
|         |              | CLASS | HOURLY LIST |
|         | CONDITION    |       |             |
|         |              |       |             |
|         |              |       |             |
|         |              |       |             |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |           | . | .                     |
| NNE                     | *     | *     | *      | *       |         |         |         |         |         |         |           | . | .                     |
| NE                      |       |       |        | *       |         |         |         |         |         |         |           | . | .                     |
| ENE                     | *     |       |        |         |         |         |         |         |         |         |           | . | .                     |
| E                       |       |       |        |         |         |         |         |         |         |         |           | . | .                     |
| ESE                     |       | *     | *      | *       | *       |         |         |         |         |         |           | . | .                     |
| SE                      | *     |       | *      | *       | *       |         |         |         |         |         |           | . | .                     |
| SSE                     |       | *     | *      | *       | *       |         |         |         |         |         |           | . | .                     |
| S                       | *     |       | *      | *       | *       |         |         |         |         |         |           | . | .                     |
| SSW                     | *     |       | *      | *       | *       |         |         |         |         |         |           | . | .                     |
| SW                      | *     |       | *      | *       | *       |         |         |         |         |         |           | . | .                     |
| WSW                     | *     | *     | 1      | *       | *       |         |         |         |         |         |           | . | .                     |
| W                       | *     | *     | *      | *       | 1       | *       |         |         |         |         |           | . | .                     |
| WNW                     | *     | 1     | *      | *       | *       | *       |         |         |         |         |           | . | .                     |
| NW                      |       |       |        |         | *       |         |         |         |         |         |           | . | .                     |
| NNW                     |       |       |        |         | *       |         |         |         |         |         |           | . | .                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           | . | .                     |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | . | .                     |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | 1 | 0                     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOURS |
|         |              | CONDITION | LST   |
|         |              |           |       |
|         |              |           |       |
|         |              |           |       |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------------------|
| N                       |       |       |        |         |         |         |         |         |         |         |           |                       |
| NNE                     |       |       |        |         |         |         |         |         |         |         |           |                       |
| NE                      |       |       |        |         | *       |         |         |         |         |         |           |                       |
| ENE                     |       |       |        |         |         |         |         |         |         |         |           |                       |
| E                       |       |       |        |         | *       |         |         |         |         |         |           |                       |
| ESE                     |       |       |        | 1       | *       |         |         |         |         |         |           |                       |
| SE                      | *     | *     | *      | *       | *       |         |         |         |         |         |           |                       |
| SSE                     | *     | *     | *      | *       | *       |         |         |         |         |         |           |                       |
| S                       | *     | *     | *      | *       | *       |         |         |         |         |         |           |                       |
| SSW                     | *     | *     | *      | *       | *       |         |         |         |         |         |           |                       |
| SW                      | *     | *     | *      | *       | *       |         |         |         |         |         |           |                       |
| WSW                     | *     | *     | *      | *       | *       |         |         |         |         |         |           |                       |
| W                       | *     | *     | *      | 1       | *       |         |         |         |         |         |           |                       |
| WNW                     | *     | *     | *      | *       | *       |         |         |         |         |         |           |                       |
| NW                      | *     | *     | *      | *       | *       |         |         |         |         |         |           |                       |
| NNW                     | *     | *     | *      | *       | *       |         |         |         |         |         |           |                       |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |                       |
| CALM                    | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOURS |
|         |              | CONDITION | LST   |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     |        |         |         |         |         |         |         |         |           | * | *                     |
| NNE                     |       | *     |        |         |         |         |         |         |         |         |           | * | *                     |
| NE                      |       |       |        |         |         |         |         |         |         |         |           | * | *                     |
| ENE                     |       |       |        |         |         |         |         |         |         |         |           | * | *                     |
| E                       | *     | *     |        |         |         |         |         |         |         |         |           | * | *                     |
| ESE                     |       |       |        |         |         |         |         |         |         |         |           | * | *                     |
| SE                      | *     | *     | *      | *       | *       |         |         |         |         |         |           | * | *                     |
| SSE                     | *     | *     | *      | *       | *       |         |         |         |         |         |           | * | *                     |
| S                       | *     | *     | *      | *       | *       |         |         |         |         |         |           | * | *                     |
| SSW                     | *     | *     | *      | *       | *       |         |         |         |         |         |           | * | *                     |
| SW                      | *     | *     |        |         |         |         |         |         |         |         |           | * | *                     |
| WSW                     | *     | *     |        |         |         |         |         |         |         |         |           | * | *                     |
| W                       | *     | *     | *      | *       | *       |         |         |         |         |         |           | * | *                     |
| NNW                     | *     | *     | *      | *       | *       |         |         |         |         |         |           | * | *                     |
| NW                      | *     | *     | *      | *       | *       |         |         |         |         |         |           | * | *                     |
| NNW                     | *     | *     | *      | *       | *       |         |         |         |         |         |           | * | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           | * | *                     |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | * | *                     |
|                         | *     | *     | *      | *       | *       |         |         |         |         |         |           | * | *                     |

TOTAL NUMBER OF OBSERVATIONS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS | MONTH     |
|---------|--------------|-------|-----------|
|         |              | C ABS | HOURS LST |
|         | CONDITION    |       |           |
|         |              |       |           |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| NNE                     | *     | *     |        |         |         |         |         |         |         |         |      | *                     |
| NE                      | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| ENE                     | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| E                       | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| ESE                     | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| SE                      | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| SSE                     | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| S                       | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| SSW                     | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| SW                      | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| WSW                     | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| W                       | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| WNW                     | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| NW                      | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| NNW                     | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    |                       |
|                         | 6     | 7     | 6      | 7       | 6       | 5       | 6       | 5       | 4       | 3       | 2    |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

**SURFACE WINDS**

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTHS \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS LST \_\_\_\_\_  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| NNE                     | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| NE                      | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| ENE                     | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| E                       | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| ESE                     | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| SE                      | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| SSE                     | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| S                       | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| SSW                     | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| SW                      | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| WSW                     | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| W                       | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| WNW                     | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| NW                      | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| NNW                     | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| VARI                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    | . | .                     |
|                         | .     | .     | 1      | .       | 1       | .       | 1       | .       | 1       | .       | 1    | . | .                     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION<br>NAME | STATION<br>NAME | YEARS | WORTH | CLASS     |       |        |         |         |         |         |         |         |         | HOURS - LST           |
|-----------------|-----------------|-------|-------|-----------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------------------|
|                 |                 |       |       | CONDITION |       |        |         |         |         |         |         |         |         |                       |
|                 |                 |       |       | 1 - 3     | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$             |
|                 |                 |       |       |           |       |        |         |         |         |         |         |         |         |                       |
| SPEED<br>(KNTS) | N               | NE    | SE    | SSE       | S     | SSW    | SW      | VSW     | W       | WNW     | NW      | NNW     | VARBL   | MEAN<br>WIND<br>SPEED |
| DIR.            | .               | .     | .     | .         | .     | .      | .       | .       | .       | .       | .       | .       | CALM    |                       |
|                 |                 |       |       |           |       |        |         |         |         |         |         |         |         |                       |

TOTAL NUMBER OF OBSERVATIONS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS | MONTH     |
|---------|--------------|-------|-----------|
|         | CLASS        |       | HOURS LST |
|         | CONDITION    |       |           |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| NNE                     | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| NE                      | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| ENE                     | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| E                       | *     | *     | *      | *       | *       | *       |         |         |         |         |      | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       |         |         |         |         |      | *                     |
| SE                      | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| SSE                     | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| S                       | *     | *     | *      | *       |         |         |         |         |         |         |      | *                     |
| SSW                     | *     | *     | *      | *       |         |         |         |         |         |         |      | *                     |
| SW                      | *     | *     |        |         |         |         |         |         |         |         |      | *                     |
| WSW                     | *     |       |        |         |         |         |         |         |         |         |      | *                     |
| W                       | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| WNW                     | *     | *     | *      | *       |         |         |         |         |         |         |      | *                     |
| NW                      | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| NNW                     | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| VARI                    |       |       |        |         |         |         |         |         |         |         |      |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    | *                     |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

NATIONAL WEATHER SERVICE  
DEPARTMENT  
ASHEVILLE, NC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH  |
|---------|--------------|-----------|--------|
|         |              | CLASS     | HOURLY |
|         |              |           |        |
|         |              | CONDITION |        |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| NE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| ENE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| E                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| SE                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| S                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| SW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| WSW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| W                       | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| WNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| NW                      | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| NNW                     | .     | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | . | .                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | X | X                     |
|                         | .     | .     | .      | .       | 1       | .       | 7       | .       | .       | .       | .         | . | .                     |

TOTAL NUMBER OF OBSERVATIONS

4  
NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       | .     |       |        |         |         |         |         |         |         |         |      | .                     |
| NNE                     | .     |       | .      | .       |         |         |         |         |         |         |      | .                     |
| NE                      | .     | .     |        | .       | .       |         |         |         |         |         |      | .                     |
| ENE                     | .     |       | .      |         |         |         |         |         |         |         |      | .                     |
| E                       | .     | .     | .      | .       | .       |         |         |         |         |         |      | .                     |
| ESE                     | .     | .     | .      | .       | .       | .       |         |         |         |         |      | .                     |
| SE                      | .     | .     | .      | .       | .       | .       |         |         |         |         |      | .                     |
| SSE                     | .     | .     | .      | .       | .       | .       |         |         |         |         |      | .                     |
| S                       | .     | .     | .      | .       | .       |         |         |         |         |         |      | .                     |
| SSW                     | .     | .     | .      | .       | .       | .       |         |         |         |         |      | .                     |
| SW                      | .     | .     | .      | .       | .       |         |         |         |         |         |      | .                     |
| WSW                     | .     | .     | .      | .       | .       |         |         |         |         |         |      | .                     |
| W                       | .     | .     | 1      | 1       | 1       |         |         |         |         |         |      | .                     |
| WNW                     | .     | .     | .      | .       | .       |         |         |         |         |         |      | .                     |
| NW                      | .     | .     | .      | .       | .       |         |         |         |         |         |      | .                     |
| NNW                     |       |       |        |         |         |         |         |         |         |         |      | .                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      | .                     |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    | .                     |
|                         | *     | *     | 4      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEAR      | MONTH      |
|---------|--------------|-----------|------------|
|         |              |           |            |
|         |              | CLASS     | HOURS LEFT |
|         |              | CONDITION |            |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | +     | -     | -      | -       | -       | -       | -       | -       | -       | -       | -         | - | -                     |
| NNE                     | +     | -     | -      | -       | -       | -       | -       | -       | -       | -       | -         | - | -                     |
| NE                      | +     | -     | -      | -       | -       | -       | -       | -       | -       | -       | -         | - | -                     |
| ENE                     | +     | -     | -      | -       | -       | -       | -       | -       | -       | -       | -         | - | -                     |
| E                       | +     | -     | -      | -       | -       | -       | -       | -       | -       | -       | -         | - | -                     |
| ESE                     | +     | -     | -      | -       | -       | -       | -       | -       | -       | -       | -         | - | -                     |
| SE                      | +     | -     | -      | -       | -       | -       | -       | -       | -       | -       | -         | - | -                     |
| SSE                     | +     | -     | -      | -       | -       | -       | -       | -       | -       | -       | -         | - | -                     |
| S                       | +     | -     | -      | -       | -       | -       | -       | -       | -       | -       | -         | - | -                     |
| SSW                     | +     | -     | -      | -       | -       | -       | -       | -       | -       | -       | -         | - | -                     |
| SW                      | +     | -     | -      | -       | -       | -       | -       | -       | -       | -       | -         | - | -                     |
| WSW                     | +     | -     | -      | -       | -       | -       | -       | -       | -       | -       | -         | - | -                     |
| W                       | +     | -     | -      | -       | -       | -       | -       | -       | -       | -       | -         | - | -                     |
| WNW                     | +     | -     | -      | -       | -       | -       | -       | -       | -       | -       | -         | - | -                     |
| NW                      | +     | -     | -      | -       | -       | -       | -       | -       | -       | -       | -         | - | -                     |
| NNW                     | +     | -     | -      | -       | -       | -       | -       | -       | -       | -       | -         | - | -                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         |   |                       |

TOTAL NUMBER OF OBSERVATIONS

NAVAL AIR STATION  
AT LAVERTON  
ASHEVILLE NC

## **SURFACE WINDS**

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS \_\_\_\_\_ M.Y. \_\_\_\_\_  
CONDITION \_\_\_\_\_

**TOTAL NUMBER OF OBSERVATIONS**

4  
NAVAL WEATHER SERVICE  
DEPARTMENT OF THE NAVY  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION                 | STATION NAME | YEARS | WEATHER | HOURS   |         |         |           |    |         |         |         |      |   |                       |   |
|-------------------------|--------------|-------|---------|---------|---------|---------|-----------|----|---------|---------|---------|------|---|-----------------------|---|
|                         |              |       |         | CLASS   |         |         | CONDITION |    |         |         |         |      |   |                       |   |
| SPEED<br>(KNTS)<br>DIR. | 1 - 3        | 4 - 6 | 7 - 10  | 11 - 16 | 17 - 21 | 22 - 27 | 28        | 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |   |
| N                       | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| NNE                     | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| NE                      | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| ENE                     | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| E                       | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| ESE                     | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| SE                      | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| SSE                     | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| S                       | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| SSW                     | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| SW                      | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| WSW                     | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| W                       | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| NNW                     | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| NW                      | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| NNW                     | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| VARBL                   | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |
| CALM                    | *            | *     | *       | *       | *       | *       | *         | *  | *       | *       | *       | *    | * | *                     | * |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

## SURFACE WINDS

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS.)**

**TOTAL NUMBER OF OBSERVATIONS**

SMOS

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | CLASS | CONDITION | MEAN WIND SPEED |       |        |         |         |         |    |    |         |    |    |    |    |
|---------|--------------|-------|-----------|-----------------|-------|--------|---------|---------|---------|----|----|---------|----|----|----|----|
|         |              |       |           | 1 - 3           | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 | 33 | 34 - 40 | 41 | 47 | 48 | 55 |
|         | N            |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | NNE          |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | NE           |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | ENE          |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | E            |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | ESE          |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | SE           |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | SSE          |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | S            |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | SSW          |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | SW           |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | WSW          |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | W            |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | WNW          |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | NW           |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | NNW          |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | VARBL        |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |
|         | CALM         |       |           |                 |       |        |         |         |         |    |    |         |    |    |    |    |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL OBSERVATION  
DEPARTMENT  
ASHEVILLE, NC

**SURFACE**

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_

CLASS: \_\_\_\_\_

CONDITION: \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | YEARS |       |        |         |         |         |         |         |         |         |      |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|
|                         | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 |
| N                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |
| NNE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |
| WNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |
| NW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |
| CALM                    | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    |

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL AIR STATION  
DETACHMENT  
ASHVILLE, NC

4

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION                 | STATION NAME | YEARS | MONTH  | HOURS LIST |         |         |         |         |         |         |      |   |                       |  |
|-------------------------|--------------|-------|--------|------------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|--|
|                         |              |       |        | CLASS      |         |         |         |         |         |         |      |   |                       |  |
| CONDITION               |              |       |        |            |         |         |         |         |         |         |      |   |                       |  |
| SPEED<br>(KNTS)<br>DIR. | 1 - 3        | 4 - 6 | 7 - 10 | 11 - 16    | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |  |
| N                       | -            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |
| NNE                     | *            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |
| NE                      | *            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |
| ENE                     | *            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |
| E                       | *            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |
| ESE                     | *            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |
| SE                      | *            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |
| SSE                     | *            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |
| S                       | *            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |
| SSW                     | *            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |
| SW                      | *            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |
| WSW                     | *            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |
| W                       | *            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |
| WNW                     | *            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |
| NW                      | *            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |
| NNW                     | *            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |
| VARBL                   |              |       |        |            |         |         |         |         |         |         |      |   |                       |  |
| CALM                    |              |       |        |            |         |         |         |         |         |         |      |   |                       |  |
|                         | *            | *     | *      | *          | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH        |
|---------|--------------|-----------|--------------|
|         |              | CLASS     | HOURS - 1 ST |
|         |              | CONDITION |              |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| WNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | X | X                     |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4  
NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTHS |
|---------|--------------|-----------|--------|
|         |              |           |        |
|         |              | CLASS     |        |
|         |              |           | HOURES |
|         |              | CONDITION |        |
|         |              |           |        |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       | *     |       | *      | *       |         |         |         |         |         |         |      | *                     |
| NNE                     | *     |       | *      | *       | *       |         |         |         |         |         |      | *                     |
| NE                      | *     |       | 1      | *       | *       |         |         |         |         |         |      | *                     |
| ENE                     | *     |       | *      | *       | *       |         |         |         |         |         |      | *                     |
| E                       | *     |       | *      | *       | *       |         |         |         |         |         |      | *                     |
| ESE                     | *     |       | *      | *       | *       |         |         |         |         |         |      | *                     |
| SE                      | *     |       | *      | *       |         |         |         |         |         |         |      | *                     |
| SSE                     | *     |       | *      |         |         |         |         |         |         |         |      | *                     |
| S                       | *     |       | *      | *       |         |         |         |         |         |         |      | *                     |
| SSW                     | *     |       | *      |         |         |         |         |         |         |         |      | *                     |
| SW                      | *     |       | 1      | *       | *       |         |         |         |         |         |      | *                     |
| WSW                     | *     |       | *      | *       | *       |         |         |         |         |         |      | *                     |
| W                       | *     |       | *      | *       | *       |         |         |         |         |         |      | *                     |
| WNW                     | *     |       | *      | *       | *       |         |         |         |         |         |      | *                     |
| NW                      |       |       | *      |         |         |         |         |         |         |         |      | *                     |
| NNW                     |       |       | *      |         |         |         |         |         |         |         |      | *                     |
| VARI                    |       |       |        |         |         |         |         |         |         |         |      | *                     |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | *                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

4

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH | HOURES | LST |
|---------|--------------|-----------|-------|--------|-----|
|         |              | Class     |       |        |     |
|         |              |           |       |        |     |
|         |              | CONDITION |       |        |     |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-----------------------|
| N                       | *     | *     | *      |         |         |         |         |         |         |         |      | *                     |
| NNE                     | *     |       | *      | *       | *       |         |         |         |         |         |      | *                     |
| NE                      | *     |       | *      | *       | *       |         |         |         |         |         |      | *                     |
| ENE                     | *     | *     |        |         |         |         |         |         |         |         |      | 1*                    |
| E                       | *     |       |        |         |         |         |         |         |         |         |      | *                     |
| ESE                     | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| SE                      | *     |       | *      | *       | *       |         |         |         |         |         |      | *                     |
| SSE                     | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| S                       | *     |       | *      | *       | *       |         |         |         |         |         |      | *                     |
| SSW                     | *     |       | *      | *       | *       |         |         |         |         |         |      | *                     |
| SW                      | *     | *     | *      | *       | *       |         |         |         |         |         |      | *                     |
| WSW                     | *     | *     |        |         |         |         |         |         |         |         |      | *                     |
| W                       | *     |       |        |         |         |         |         |         |         |         |      | *                     |
| WNW                     | *     |       |        |         |         |         |         |         |         |         |      | *                     |
| NW                      | *     |       |        |         |         |         |         |         |         |         |      | *                     |
| NNW                     | *     |       |        |         |         |         |         |         |         |         |      | *                     |
| VARIABLE                |       |       |        |         |         |         |         |         |         |         |      |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    | *                     |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | *                     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION                 | STATION NAME | YEARS | MONTH  | HOURS   | LST     |         |         |         |         |         |           |                       |
|-------------------------|--------------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------------------|
| SPEED<br>(KNTS)<br>DIR. | 1 - 3        | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | MEAN<br>WIND<br>SPEED |
| N                       | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | .                     |
| NNE                     | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | .                     |
| NE                      | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | .                     |
| ENE                     | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | .                     |
| E                       | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | .                     |
| ESE                     | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | .                     |
| SE                      | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | .                     |
| SSE                     | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | .                     |
| S                       | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | .                     |
| SSW                     | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | .                     |
| SW                      | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | .                     |
| WSW                     | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | .                     |
| W                       | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | .                     |
| WNW                     | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | .                     |
| NW                      | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | .                     |
| NNW                     | .            | .     | .      | .       | .       | .       | .       | .       | .       | .       | .         | .                     |
| VARBL                   |              |       |        |         |         |         |         |         |         |         |           |                       |
| CALM                    | X            | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | X                     |
|                         |              |       |        |         |         |         |         |         |         |         |           |                       |
|                         |              |       |        |         |         |         |         |         |         |         |           |                       |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH      |
|---------|--------------|-----------|------------|
|         |              | CLASS     | HOURS LIST |
|         |              | CONDITION |            |
|         |              |           |            |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | %<br>MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|----------------------------|
| N                       | *     | *     | *      |         |         |         |         |         |         |         |           | *                          |
| NNE                     | *     | *     | *      |         |         |         |         |         |         |         |           | *                          |
| NE                      | *     | *     | *      |         |         |         |         |         |         |         |           | *                          |
| ENE                     | *     | *     |        |         |         |         |         |         |         |         |           | *                          |
| E                       | *     | *     | *      |         |         |         |         |         |         |         |           | *                          |
| ESE                     | *     | *     | *      |         |         |         |         |         |         |         |           | *                          |
| SE                      | *     | *     | *      |         |         |         |         |         |         |         |           | *                          |
| SSE                     | *     | *     | *      |         |         |         |         |         |         |         |           | *                          |
| S                       | *     | *     | *      |         |         |         |         |         |         |         |           | *                          |
| SSW                     | *     |       | *      |         |         |         |         |         |         |         |           | *                          |
| SW                      | *     | *     |        |         |         |         |         |         |         |         |           | *                          |
| WSW                     | *     | *     |        |         |         |         |         |         |         |         |           | *                          |
| W                       | *     | *     | *      |         |         |         |         |         |         |         |           | *                          |
| WNW                     | *     | *     | *      |         |         |         |         |         |         |         |           | *                          |
| NW                      | *     | *     |        |         |         |         |         |         |         |         |           | *                          |
| NNW                     | *     | *     |        |         |         |         |         |         |         |         |           | *                          |
| VARI                    |       |       |        |         |         |         |         |         |         |         |           |                            |
| CALM                    |       |       |        |         |         |         |         |         |         |         |           | *                          |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | *                          |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | WORTH         |
|---------|--------------|-----------|---------------|
|         |              | CLASS     | HOURS 12 S.T. |
|         |              | CONDITION |               |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| WNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | X | X                     |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

**SURFACE WINDS**

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS : 1 5 10  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | *     | *     | *      |         |         |         |         |         |         |         |      | * | *                     |
| NNE                     | *     | *     | *      | *       |         |         |         |         |         |         |      | * | *                     |
| NE                      | *     | 1*    | *      | *       |         |         |         |         |         |         |      | * | *                     |
| ENE                     | *     | *     | *      | *       |         |         |         |         |         |         |      | * | *                     |
| E                       | *     | *     | *      | *       |         |         |         |         |         |         |      | * | *                     |
| ESE                     | *     | *     | *      | *       |         |         |         |         |         |         |      | * | *                     |
| SE                      | *     | *     | *      | 1*      |         |         |         |         |         |         |      | * | *                     |
| SSE                     | *     | *     | *      | *       |         |         |         |         |         |         |      | * | *                     |
| S                       | *     | *     | *      | *       |         |         |         |         |         |         |      | * | *                     |
| SSW                     |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| SW                      |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| WSW                     | *     | *     | *      | *       |         |         |         |         |         |         |      | * | *                     |
| W                       | *     | *     | *      | *       |         |         |         |         |         |         |      | * | *                     |
| WNW                     | *     | *     | 1*     | *       |         |         |         |         |         |         |      | * | *                     |
| NW                      | *     | 1*    | *      | *       |         |         |         |         |         |         |      | * | *                     |
| NNW                     | *     | 1*    | *      | *       |         |         |         |         |         |         |      | * | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    | * | *                     |
|                         | *     | *     | 1*     | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
CLASS \_\_\_\_\_ HOURS (LST) \_\_\_\_\_  
CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | .     | .     | .      |         |         |         |         |         |         |         |      | . | .                     |
| NNE                     | .     | .     | .      | .       | .       | .       | .       |         |         |         |      | 1 | .                     |
| NE                      | .     | .     | .      | .       | 1       | .       |         |         |         |         |      | . | .                     |
| ENE                     | .     | .     | .      | .       | .       |         |         |         |         |         |      | 2 | .                     |
| E                       | .     | .     | .      | .       | .       |         |         |         |         |         |      | . | .                     |
| ESE                     | .     | 1     | .      | .       | .       |         |         |         |         |         |      | 2 | .                     |
| SE                      | .     | .     | .      | .       | .       |         |         |         |         |         |      | . | .                     |
| SSE                     |       |       |        |         |         |         |         |         |         |         |      | . | .                     |
| S                       | .     | .     | .      |         |         |         |         |         |         |         |      | 1 | .                     |
| SSW                     | .     | .     | 1      |         |         |         |         |         |         |         |      | 1 | .                     |
| SW                      | .     |       |        |         |         |         |         |         |         |         |      | 1 | .                     |
| WSW                     | .     | .     | .      | .       | .       |         |         |         |         |         |      | 1 | .                     |
| W                       | .     | .     | .      | .       | .       |         |         |         |         |         |      | 1 | .                     |
| WNW                     | .     | .     | .      | .       | .       |         |         |         |         |         |      | 1 | .                     |
| NW                      | .     | .     | .      | .       | 1       | .       | .       | .       | .       |         |      | 1 | .                     |
| NNW                     | .     | 1     | .      | .       | 1       | .       | .       | .       | .       |         |      | 1 | .                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   | .                     |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | . | .                     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## **SURFACE WINDS**

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

**TOTAL NUMBER OF OBSERVATIONS**

SMOS

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION                 | STATION NAME | YEARS | WIND DIRECTION | CLASS   | HOURS   | COND.   | WIND SPEED |    |         |         |         |      |   |                       |
|-------------------------|--------------|-------|----------------|---------|---------|---------|------------|----|---------|---------|---------|------|---|-----------------------|
|                         |              |       |                |         |         |         |            |    |         |         |         |      |   |                       |
|                         |              |       |                | CLASS   |         |         |            |    |         |         |         |      |   |                       |
|                         |              |       |                |         |         |         |            |    |         |         |         |      |   |                       |
|                         |              |       |                | COND.   |         |         |            |    |         |         |         |      |   |                       |
|                         |              |       |                |         |         |         |            |    |         |         |         |      |   |                       |
| SPEED<br>(KNTS)<br>DIR. | 1 - 3        | 4 - 6 | 7 - 10         | 11 - 16 | 17 - 21 | 22 - 27 | 28         | 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
| N                       | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| NNE                     | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| NE                      | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| ENE                     | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| E                       | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| ESE                     | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| SE                      | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| SSE                     | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| S                       | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| SSW                     | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| SW                      | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| WSW                     | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| W                       | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| WNW                     | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| NW                      | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| NNW                     | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| VARBL                   | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
| CALM                    | -            | -     | -              | -       | -       | -       | -          | -  | -       | -       | -       | -    | - |                       |
|                         | 0            | 0     | 0              | 0       | 0       | 0       | 0          | 0  | 0       | 0       | 0       | 0    | 0 |                       |

TOTAL NUMBER OF OBSERVATIONS

## **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION NUMBER STATION NAME YEARS

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 | 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | AVERAGE<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|----|----|---------|---------|---------|------|---|--------------------------|
| N                       | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| NNE                     | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| NE                      | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| ENE                     | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| E                       | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| ESE                     | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| SE                      | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| SSE                     | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| S                       | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| SSW                     | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| SW                      | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| WSW                     | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| W                       | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| WNW                     | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| NW                      | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| NNW                     | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| VARBL                   | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |
| CALM                    | *     | *     | *      | *       | *       | *       | *  | *  | *       | *       | *       | *    | * | *                        |

TOTAL NUMBER OF OBSERVATIONS

## E 4

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEAR | CLASS | CONDITION |
|---------|--------------|------|-------|-----------|
|         |              |      |       |           |

| SPEED<br>INTNS.<br>DIR | PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED |       |        |         |         |         |         |         |         |         |      |   | TOTAL<br>NUMBER<br>OF<br>OBSERVATIONS |
|------------------------|--|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|---------------------------------------|
|                        | 1 - 3  | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 |   |                                       |
| N                      | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| NNE                    | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| NE                     | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| ENE                    | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| E                      | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| ESE                    | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| SE                     | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| SSE                    | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| S                      | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| SSW                    | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| SW                     | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| WSW                    | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| W                      | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| WNW                    | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| NW                     | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| NNW                    | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| VARBL                  | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
| CALM                   | *  | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * |                                       |
|                        |  |       |        |         |         |         |         |         |         |         |      |   |                                       |

TOTAL NUMBER OF OBSERVATIONS

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PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS  
CLASS CONDITION

**TOTAL NUMBER OF OBSERVATION**

SMOS

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION                      | STATION NAME | YEARS | MONTH | HOURS |     |     |      |       |       |       |       |       |       | MEAN<br>WIND<br>SPEED |  |
|------------------------------|--------------|-------|-------|-------|-----|-----|------|-------|-------|-------|-------|-------|-------|-----------------------|--|
|                              |              |       |       | CLASS | 1-3 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55                 |  |
| CONDITION                    |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| N                            |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| NNE                          |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| NE                           |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| ENE                          |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| E                            |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| ESE                          |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| SE                           |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| SSE                          |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| S                            |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| SSW                          |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| SW                           |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| WSW                          |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| W                            |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| WNW                          |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| NW                           |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| NNW                          |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| VARBL                        |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| CALM                         |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
|                              |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |
| TOTAL NUMBER OF OBSERVATIONS |              |       |       |       |     |     |      |       |       |       |       |       |       |                       |  |

4

NAVAL WEATHER SERVICE  
ATLANTIC PORTS  
ASHEVILLE, N.C.

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH      |
|---------|--------------|-----------|------------|
|         |              | CLASS     | HOURS LIST |
|         |              | COND-TION |            |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| WNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| VARBL                   | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| CALM                    | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4  
NAVAL WEATHER BUREAU  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS | MONTH  |
|---------|--------------|-------|--------|
|         |              | CLASS | HOURES |
|         | CONDITION    |       | EST.   |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| VARBL                   | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *         | * | *                     |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X         | X | X                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION                 | STATION NAME | YEARS | MONTH  | HOURELY CLIMATE |         |         |         |         |         |         |      |   |                       |  |  |  |
|-------------------------|--------------|-------|--------|-----------------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|--|--|--|
|                         |              |       |        | 1               | 2       | 3       | 4       | 5       | 6       | 7       | 8    | 9 | 10                    |  |  |  |
| CLASS                   |              |       |        |                 |         |         |         |         |         |         |      |   |                       |  |  |  |
| CONDITION               |              |       |        |                 |         |         |         |         |         |         |      |   |                       |  |  |  |
| SPEED<br>(KNTS)<br>DIR. | 1 - 3        | 4 - 6 | 7 - 10 | 11 - 16         | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |  |  |  |
| N                       | *            | *     | *      | *               | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |  |  |
| NNE                     | *            | *     | *      | *               | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |  |  |
| NE                      | *            | *     | *      | *               | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |  |  |
| ENE                     | *            | *     | *      | *               | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |  |  |
| E                       | *            | *     | *      | *               | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |  |  |
| ESE                     | *            | *     | *      | *               | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |  |  |
| SE                      | *            | *     | *      | *               | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |  |  |
| SSE                     | *            | *     | *      | *               | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |  |  |
| S                       | *            | *     | *      | *               | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |  |  |
| SSW                     | *            | *     | *      | *               | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |  |  |
| SW                      | *            | *     | *      | *               | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |  |  |
| WSW                     | *            | *     | *      | *               | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |  |  |
| W                       | *            | *     | *      | *               | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |  |  |
| WNW                     | *            | *     | *      | *               | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |  |  |
| NW                      | *            | *     | *      | *               | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |  |  |
| NNW                     | *            | *     | *      | *               | *       | *       | *       | *       | *       | *       | *    | * | *                     |  |  |  |
| VARBL                   |              |       |        |                 |         |         |         |         |         |         |      |   |                       |  |  |  |
| CALM                    | X            | X     | X      | X               | X       | X       | X       | X       | X       | X       | X    | X | X                     |  |  |  |
|                         | 87           | 79    | 77     | 116             | 197     | 6       |         |         |         |         |      |   |                       |  |  |  |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4

NAVAL WEATHER SERVICE  
ATTACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION                 | STATION NAME | YEARS | MONTH  | HOURS LIST |         |         |         |         |         |         |      |   |                       |   |
|-------------------------|--------------|-------|--------|------------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|---|
|                         |              |       |        | CLASS      |         |         |         |         |         |         |      |   |                       |   |
| CONDITION               |              |       |        |            |         |         |         |         |         |         |      |   |                       |   |
| SPEED<br>(KNTS)<br>DIR. | 1 - 3        | 4 - 6 | 7 - 10 | 11 - 16    | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |   |
| N                       | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| NNE                     | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| NE                      | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| ENE                     | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| E                       | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| ESE                     | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| SE                      | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| SSE                     | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| S                       | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| SSW                     | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| SW                      | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| WSW                     | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| W                       | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| NNW                     | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| NW                      | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| NNW                     | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| VARBL                   | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |
| CALM                    | -            | -     | -      | -          | -       | -       | -       | -       | -       | -       | -    | - | -                     | - |

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
IN POCHEENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH       |
|---------|--------------|-----------|-------------|
|         |              |           |             |
|         |              | CLASS     | HOURS CL ST |
|         |              | CONDITION |             |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----------|---|-----------------------|
| N                       | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| NNE                     | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| NE                      | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| ENE                     | *     | *     |        |         |         |         |         |         |         |         |           |   | *                     |
| E                       | *     | *     |        |         |         |         |         |         |         |         |           |   | *                     |
| ESE                     | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| SE                      | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| SSE                     | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| S                       | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| SSW                     | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| SW                      | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| WSW                     | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| W                       | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| WNW                     | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| NW                      | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| NNW                     | *     | *     | *      |         |         |         |         |         |         |         |           |   | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |           |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |           |   |                       |
|                         | *     | *     | *      | 11*     | *       | *       | *       | *       | *       | *       | *         |   |                       |

TOTAL NUMBER OF OBSERVATIONS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION                 | STATION NAME        |       |        |         |         |         |         |         |         |         | YEARS      | MONTH |                       |
|-------------------------|---------------------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------------|-------|-----------------------|
|                         | CLASS               |       |        |         |         |         |         |         |         |         | HOURS LIST |       |                       |
|                         | CONDITION           |       |        |         |         |         |         |         |         |         |            |       |                       |
| SPEED<br>(KNTS)<br>DIR. | 1 - 3               | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56       | %     | MEAN<br>WIND<br>SPEED |
| N                       | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |
| NNE                     | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |
| NE                      | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |
| ENE                     | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |
| E                       | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |
| ESE                     | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |
| SE                      | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |
| SSE                     | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |
| S                       | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |
| SSW                     | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |
| SW                      | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |
| WSW                     | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |
| W                       | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |
| WNW                     | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |
| NW                      | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |
| NNW                     | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |
| VARBL                   | X X X X X X X X X X |       |        |         |         |         |         |         |         |         | *          | *     | *                     |
| CALM                    | X X X X X X X X X X |       |        |         |         |         |         |         |         |         | *          | *     | *                     |
|                         | *                   | *     | *      | *       | *       | *       | *       | *       | *       | *       | *          | *     | *                     |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS

4  
1968-47  
125

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONT    |
|---------|--------------|-----------|---------|
|         |              | CLASS     | HOURS   |
|         |              | CONDITION | ALL S T |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NNE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| WNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| VARIABLE                |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    | X     | X     | X      | X       | X       | X       | X       | X       | X       | X       | X    | X | X                     |
|                         | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4  
NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

| STATION | STATION NAME | YEARS     | MONTH |
|---------|--------------|-----------|-------|
|         |              | CLASS     | HOURS |
|         |              | CONDITION | 1 3 7 |

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-----------------------|
| N                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NNE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| ENE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| E                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| ESE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SE                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SSE                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| S                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| SW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| WSW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| W                       | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| WNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NW                      | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| NNW                     | *     | *     | *      | *       | *       | *       | *       | *       | *       | *       | *    | * | *                     |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |   |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      |   |                       |

TOTAL NUMBER OF OBSERVATIONS

SMOS

4

## **SURFACE WINDS**

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

| STATION | STATION NAME | YEARS | WCHP      |
|---------|--------------|-------|-----------|
|         |              |       |           |
|         | CLASS        |       | HOURS LST |
|         | CONDITION    |       |           |

**TOTAL NUMBER OF OBSERVATIONS**

SMOS

## SURFACE WINDS

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

NO. AT WHICH THIS FORM  
IS TO BE FILLED  
AND SIGNED

4

| STATION                 | STATION NAME | YEARS | MONTH  |         |         |         |    |    |         |         |         |           |   |                       |
|-------------------------|--------------|-------|--------|---------|---------|---------|----|----|---------|---------|---------|-----------|---|-----------------------|
| SPEED<br>(KNTS)<br>DIR. | 1 - 3        | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 | 33 | 34 - 40 | 41 - 47 | 48 - 55 | $\geq 56$ | % | MEAN<br>WIND<br>SPEED |
| N                       | .            | .     | .      | .       | .       | .       | .  | .  | .       | .       | .       | .         | . | .                     |
| NNE                     | .            | .     | .      | .       | .       | .       | .  | .  | .       | .       | .       | .         | . | .                     |
| NE                      | .            | .     | .      | .       | .       | .       | .  | .  | .       | .       | .       | .         | . | .                     |
| ENE                     | .            | .     | .      | .       | .       | .       | .  | .  | .       | .       | .       | .         | . | .                     |
| E                       | .            | .     | .      | .       | .       | .       | .  | .  | .       | .       | .       | .         | . | .                     |
| ESE                     | .            | .     | .      | .       | .       | .       | .  | .  | .       | .       | .       | .         | . | .                     |
| SE                      | .            | .     | .      | .       | .       | .       | .  | .  | .       | .       | .       | .         | . | .                     |
| SSE                     | .            | .     | .      | .       | .       | .       | .  | .  | .       | .       | .       | .         | . | .                     |
| S                       | .            | .     | .      | .       | .       | .       | .  | .  | .       | .       | .       | .         | . | .                     |
| SSW                     | .            | .     | .      | .       | .       | .       | .  | .  | .       | .       | .       | .         | . | .                     |
| SW                      | .            | .     | .      | .       | .       | .       | .  | .  | .       | .       | .       | .         | . | .                     |
| WSW                     | .            | .     | .      | .       | .       | .       | .  | .  | .       | .       | .       | .         | . | .                     |
| W                       | .            | .     | .      | .       | .       | .       | .  | .  | .       | .       | .       | .         | . | .                     |
| WNW                     | .            | .     | .      | .       | .       | .       | .  | .  | .       | .       | .       | .         | . | .                     |
| NW                      | .            | .     | .      | .       | .       | .       | .  | .  | .       | .       | .       | .         | . | .                     |
| NNW                     | .            | .     | .      | .       | .       | .       | .  | .  | .       | .       | .       | .         | . | .                     |
| VARBL                   |              |       |        |         |         |         |    |    |         |         |         |           |   |                       |
| CALM                    |              |       |        |         |         |         |    |    |         |         |         |           |   |                       |

TOTAL NUMBER OF OBSERVATIONS

## SURFACE WINDS

4

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION<br>NAME | YEAR | CLASS | HOURLY<br>WIND<br>DIRECTION | MEAN<br>WIND<br>SPEED |       |        |         |         |         |         |         |         |         |      |   |
|-----------------|------|-------|-----------------------------|-----------------------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|
|                 |      |       |                             | 1 - 3                 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % |
| N               |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| NNE             |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| NE              |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| ENE             |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| E               |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| ESE             |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| SE              |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| SSE             |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| S               |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| SSW             |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| SW              |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| WSW             |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| W               |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| NNW             |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| NW              |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| NNW             |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| VARBL           |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |
| CALM            |      |       |                             |                       |       |        |         |         |         |         |         |         |         |      |   |

TOTAL NUMBER OF OBSERVATIONS

**SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

| STATION<br>(KNOTS)<br>DIR | STATION NAME |       |        |         |         |         |         |         |         |         |      |   | STAPS | HOURLY<br>WIND<br>SPEED |
|---------------------------|--------------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|---|-------|-------------------------|
|                           | 1 - 3        | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | % |       |                         |
| N                         | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| NNE                       | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| NE                        | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| ENE                       | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| E                         | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| ESE                       | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| SE                        | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| SSE                       | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| S                         | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| SSW                       | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| SW                        | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| WSW                       | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| W                         | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| WNW                       | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| NW                        | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| NNW                       | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| VARBL                     | -            | -     | -      | -       | -       | -       | -       | -       | -       | -       | -    | - | -     | -                       |
| CALM                      | #            | #     | #      | #       | #       | #       | #       | #       | #       | #       | #    | # | #     | #                       |

TOTAL NUMBER OF OBSERVATIONS

U.S. Army Test Pilot School  
Aberdeen Proving Ground

## PART D

## CEILING VERSUS VISIBILITY

The following report presents the results of a study conducted at the U.S. Army Test Pilot School, Aberdeen Proving Ground, Maryland, to determine the effect of ceiling height on visibility.

Two experiments were conducted to determine the effect of ceiling height on visibility. The first experiment was conducted in a dark room with a white ceiling. The second experiment was conducted in a dark room with a black ceiling.

The first experiment was conducted in a dark room with a white ceiling. The subjects were asked to identify objects in the room under different ceiling heights. The results showed that visibility decreased as the ceiling height increased. The subjects could identify objects more easily when the ceiling height was lower than when it was higher.

The second experiment was conducted in a dark room with a black ceiling. The subjects were asked to identify objects in the room under different ceiling heights. The results showed that visibility decreased as the ceiling height increased. The subjects could identify objects more easily when the ceiling height was lower than when it was higher.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |       |       |       |       |         |         |         |         |         |         |         |         |        |
|-----------------|----------------------------|-------|-------|-------|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
|                 | ≥ 10                       | ≥ 6   | ≥ 5   | ≥ 4   | ≥ 3   | ≥ 2 1/2 | ≥ 2 1/4 | ≥ 2 1/2 | ≥ 2 1/4 | ≥ 2 1/2 | ≥ 2 1/4 | ≥ 2 1/2 | ≥ 2 1/4 | ≥ 0    |
| ≥ 1500          | 92.6%                      | 95.4% | 96.9% | 97.3% | 97.7% | 98.1%   | 98.4%   | 98.7%   | 99.0%   | 99.2%   | 99.4%   | 99.6%   | 99.8%   | 100.0% |
| ≥ 1000          | 90.8%                      | 93.6% | 95.1% | 95.9% | 96.4% | 96.9%   | 97.3%   | 97.7%   | 98.0%   | 98.3%   | 98.6%   | 98.9%   | 99.2%   | 100.0% |
| ≥ 500           | 89.0%                      | 91.8% | 93.3% | 94.1% | 94.6% | 95.0%   | 95.4%   | 95.8%   | 96.1%   | 96.4%   | 96.7%   | 97.0%   | 97.3%   | 100.0% |
| ≤ 500           | 87.2%                      | 89.9% | 91.4% | 92.2% | 92.7% | 93.1%   | 93.5%   | 93.9%   | 94.2%   | 94.5%   | 94.8%   | 95.1%   | 95.4%   | 100.0% |
| ≤ 0             | 85.4%                      | 88.1% | 89.6% | 90.4% | 90.9% | 91.3%   | 91.7%   | 92.1%   | 92.4%   | 92.7%   | 93.0%   | 93.3%   | 93.6%   | 100.0% |

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
 For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
 Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
 Visibility  $\geq 3$  miles = 95.4%.  
 Visibility  $\geq 2$  miles = 96.9%.  
 Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

## PART D

### ADDITIONAL EXAMPLES

#### EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.

Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

#### EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of > 1500 feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of > 500 feet with  $\geq 1$  mile is equal to 6.4%. Thus, 6.4 percent of the observations meet the criteria: "ceiling  $\geq$  500 feet with visibility  $\geq 1$  mile, but < 3 miles; or ceiling  $\geq 500$  feet, but < 1500 feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limit as well as probabilities of various ceiling-visibility combinations.

## PART D

## SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover and total number of observations. It is presented in two tables as follows:

1. By month and annual - all hours and all years combined.
2. By month - by standard 3-hour groups.

NOTE: #1: Sky cover (total cloud amount) was not reported by U.S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

NOTE: #2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

| <u>OKTAS</u>    | <u>TENTHS</u> |
|-----------------|---------------|
| 0               | 0             |
| 1               | 1             |
| 2               | 3             |
| 3               | 4             |
| 4               | 5             |
| 5               | 6             |
| 6               | 8             |
| 7               | 9             |
| 8 (or obscured) | 10            |

NOTE: #3: Beginning in 1981 the symbols of Clear, Scattered, Broken, overcast, and obscured were used as input for the Total Sky Cover. Following are the conversions:

Clear converted to 0/10  
Scattered converted to 3/10  
Broken converted to 9/10  
Overcast converted to 10/10  
Obscured converted to 10/10

NAVAL WEATHER SERVICE - TAIWAN INFORMATION CENTER

**CEILING VERSUS VISIBILITY**

| STATION<br>CEILING<br>'FEET' | STATION NAME | VISIBILITY (STATUTE MILES) |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |                     |                    |          |
|------------------------------|--------------|----------------------------|----------|----------|----------|----------|---------------------|----------|---------------------|---------------------|----------|--------------------|--------------------|--------------------|---------------------|--------------------|----------|
|                              |              | $\geq 10$                  | $\geq 6$ | $\geq 5$ | $\geq 4$ | $\geq 3$ | $\geq 2\frac{1}{2}$ | $\geq 2$ | $\geq 1\frac{1}{2}$ | $\geq 1\frac{1}{4}$ | $\geq 1$ | $\geq \frac{3}{4}$ | $\geq \frac{1}{2}$ | $\geq \frac{1}{4}$ | $\geq \frac{1}{16}$ | $\geq \frac{1}{4}$ | $\geq 0$ |
| NO CEILING                   |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 20000$                 |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 18000$                 |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 16000$                 |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 14000$                 |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 12000$                 |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 10000$                 |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 9000$                  |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 8000$                  |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 7000$                  |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 6000$                  |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 5000$                  |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 4500$                  |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 4000$                  |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 3500$                  |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 3000$                  |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 2500$                  |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 2000$                  |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 1800$                  |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 1500$                  |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 1200$                  |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 1000$                  |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 900$                   |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 800$                   |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 700$                   |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 600$                   |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 500$                   |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 400$                   |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 300$                   |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 200$                   |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 100$                   |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |
| $\geq 0$                     |              | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  | .        |

TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER SERVICE BUREAU - HEVILLE, W.V.

## CEILING VERSUS VISIBILITY

STATION

STATION NAME: HEVILLE, W.V.

YEAR:

BORTH:

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |     |     |     |     |      |     |      |      |     |     |     |     |     |
|-----------------|--------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|
|                 | ≥ 10                     | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO CEILING      | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 20000         | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 18000         | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 16000         | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 14000         | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 12000         | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 10000         | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 9000          | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 8000          | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 7000          | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 6000          | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 5000          | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 4500          | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 4000          | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 3500          | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 3000          | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 2500          | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 2000          | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1800          | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1500          | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1200          | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1000          | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 900           | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 800           | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 700           | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 600           | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 500           | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 400           | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 300           | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 200           | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 100           | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 0               | .                        | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

DATA SOURCE AND TIME STATUS

NAVAL WEATHER SERVICE DETACHMENT AT REEDVILLE, VA

## CEILING VERSUS VISIBILITY

STATION NAME: STATION NUMBER: YEARS: NORTH: HOURS: 1-8: 9-16:

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |        |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 18000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 16000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 14000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 12000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 8000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 7000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 6000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 5000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 4500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 4000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 3500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 3000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 2500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 2000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 1800           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 1500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 1200           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 1000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 900            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 800            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 700            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 600            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 400            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 300            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 200            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 100            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 0              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ALEXANDRIA, VA

## CEILING VERSUS VISIBILITY

STATION  STATION NAME  PERIOD OF RECORD  YEARS  MONTHS  HOURS

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |      |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ 1 | ≥ 4 | ≥ 3½ | ≥ 3 | ≥ 2 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .    | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT, ATHENS, GREECE

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |      |      |      |      |      |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|------|------|------|------|------|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ 1¼ | ≥ 1⅓ | ≥ 1⅔ | ≥ 1⅕ | ≥ 1⅖ |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 6000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 4500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 3500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 2500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 1800            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 1500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 1200            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 900             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 700             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 500             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 300             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |
| ≥ 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    | .    |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

ANALYSIS FOR THE PERIOD OF JANUARY 1950 TO DECEMBER 1951

STATION NAME: \_\_\_\_\_  
 PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |        |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|--------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |

TOTAL NUMBER OF OBSERVATIONS: \_\_\_\_\_

NAVAL WEATHER SERVICE - STATION NO. 11, ALEXANDRIA

## CEILING VERSUS VISIBILITY

STATION NUMBER: 11 DATE: 1960-01-01 YEARS: 1958-1960 MONTH: JANUARY

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |     |     |     |     |      |     |      |      |     |     |     |     |        |       |
|-----------------|--------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-------|
|                 | ≥ 10                     | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/16 | ≤ 1/8 |
| NO CEILING      | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 20000         | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 18000         | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 16000         | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 14000         | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 12000         | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 10000         | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 9000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 8000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 7000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 6000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 5000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 4500          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 4000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 3500          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 3000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 2500          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 2000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 1800          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 1500          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 1200          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 1000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 900           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 800           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 700           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 600           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 500           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 400           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 300           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 200           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| ≥ 100           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |
| 0               | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     |

TOTAL NUMBER OF OBSERVATIONS

CEILING CLARIFIED - 1960

NATIONAL ATMOSPHERIC ENVIRONMENTAL SERVICE

## CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS  
PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY STATUTE MILES |     |     |     |     |      |     |      |     |     |     |     |     |
|-------------------|--------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|
|                   | ≥ 10                     | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ¼ | ≥ ½ | ≥ ⅓ |
| NO CEILING        | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 20000           | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 18000           | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 16000           | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 14000           | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 12000           | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 10000           | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 9000            | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 8000            | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 7000            | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 6000            | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 5000            | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 4500            | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 4000            | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 3500            | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 3000            | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 2500            | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 2000            | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 1800            | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 1500            | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 1200            | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 1000            | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 900             | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 800             | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 700             | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 600             | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 500             | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 400             | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 300             | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 200             | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 100             | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |
| ≥ 0               | -                        | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -   |

TOTAL NUMBER OF OBSERVATIONS

## CEILING VERSUS VISIBILITY

| STATION<br>CEILING<br>FEET* | STATION NAME | YEARS | MONTH | VISIBILITY STATUTE MILES |     |     |     |     |      |     |      |     |     |     |        |        |
|-----------------------------|--------------|-------|-------|--------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|--------|--------|
|                             |              |       |       | ≥ 10                     | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≤ 5/16 |
| NO CEILING                  |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 20000                     |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 18000                     |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 16000                     |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 14000                     |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 12000                     |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 10000                     |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 9000                      |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 8000                      |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 7000                      |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 6000                      |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 5000                      |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 4500                      |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 4000                      |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 3500                      |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 3000                      |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 2500                      |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 2000                      |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 1800                      |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 1500                      |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 1200                      |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 1000                      |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 900                       |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 800                       |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 700                       |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 600                       |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 500                       |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 400                       |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 300                       |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 200                       |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 100                       |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |
| ≥ 0                         |              |       |       | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .      |

TOTAL NUMBER OF OBSERVATIONS

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| CEILING<br>FEET | VISIBILITY, STATUTE MILES |     |     |     |     |      |     |      |     |     |     |     |
|-----------------|---------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|
|                 | ≥ 10                      | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≤ ¼ |
| NO CEILING      | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 20000         | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 18000         | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 16000         | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 14000         | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 12000         | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 10000         | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 8000          | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 7000          | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 6000          | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 5000          | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 4500          | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 4000          | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 3500          | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 3000          | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 2500          | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 2000          | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 1500          | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 1000          | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 500           | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 200           | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 100           | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≤ 50            | *                         | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS

AUTOMATIC WEATHER STATION DAILY SUMMARY

STATION

STATION NAME

PERIOD

YEARS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |     |     |     |     |      |     |      |     |     |     |     |
|-----------------|--------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|
|                 | ≥ 10                     | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ¼ | ≤ ¼ |
| NO CEILING      | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 20000         | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 18000         | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 16000         | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 14000         | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 12000         | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 10000         | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 9000          | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 8000          | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 7000          | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 6000          | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 5000          | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 4500          | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 4000          | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 3500          | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 3000          | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 2500          | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 2000          | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 1500          | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 1000          | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 700           | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 500           | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 350           | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 150           | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 100           | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 50            | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≥ 00            | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |
| ≤ 0             | ✓                        | ✓   | ✓   | ✓   | ✓   | ✓    | ✓   | ✓    | ✓   | ✓   | ✓   | ✓   |

TOTAL NUMBER OF OBSERVATIONS

## CEILING VERSUS VISIBILITY

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≤ ¼ |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≤ 0             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

ANNUAL WEATHER REPORT - TWO YEARS AND ONE MONTH

## CEILING VERSUS VISIBILITY

STATION YEAR STATION NAME MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |      |      |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|------|------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 11 | ≥ 0 |
| NO CEILING      | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 20000         | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 18000         | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 16000         | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 14000         | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 12000         | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 10000         | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 9000          | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 8000          | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 7000          | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 6000          | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 5000          | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 4500          | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 4000          | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 3500          | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 3000          | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 2500          | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 2000          | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 1800          | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 1500          | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 1200          | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 1000          | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 800           | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 700           | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 600           | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 500           | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 400           | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 350           | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 250           | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| ≥ 100           | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |
| 0               | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *    | *   |

TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER SERVICE - AIRPORT METEOROLOGICAL DATA

## CEILING VERSUS VISIBILITY

STATION NUMBER STATION NAME YEARS MONTH HOURS

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |      |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|------|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ 1 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 6000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 4500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 3500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 2500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1800            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1200            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 900             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 700             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 500             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 300             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≤ 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |

TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER INFORMATION CENTER - WEAVER

## CEILING VERSUS VISIBILITY

| STATION<br>CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |     |     |
|----------------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|
|                            | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ ⅛ | ≥ 0 |
| NO CEILING                 | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 20000                    | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 18000                    | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 16000                    | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 14000                    | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 12000                    | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 10000                    | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 9000                     | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 8000                     | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 7000                     | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 6000                     | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 5000                     | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 4500                     | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 4000                     | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 3500                     | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 3000                     | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 2500                     | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 2000                     | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 1800                     | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 1500                     | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 1200                     | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 1000                     | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 900                      | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 800                      | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 700                      | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 600                      | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 500                      | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 400                      | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 300                      | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 200                      | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| ≥ 100                      | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |
| 0                          | •                          | •   | •   | •   | •   | •    | •   | •    | •   | •   | •   | •   | •   | •   |

TOTAL NUMBER OF OBSERVATIONS

DATA SOURCE AND DATE: 1975

## **CEILING VERSUS VISIBILITY**

NEVER WEATHER-DEPENDENT. TAKES UP LITTLE ROOM AND IS EASY TO USE.

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

**TOTAL NUMBER OF OBSERVATIONS**

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE ATTACHMENT ARGENTINA NO.

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

**TOTAL NUMBER OF OBSERVATIONS**

NAVAL WEATHER RESEARCH DATA CENTER, WASHINGTON, D.C.

# CEILING VERSUS VISIBILITY

| STATION<br>CEILING<br>(FEET) | STATION NAME | YEARS | MONTHS | PERCENTAGE FREQUENCY OF OCCURRENCE<br>(FROM HOURLY OBSERVATIONS) |     |     |     |     |      |     |      |      |     |     |     |     |        |        |
|------------------------------|--------------|-------|--------|--|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|--------|
|                              |              |       |        | ≥ 10   | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/16 | ≥ 1/32 |
| NO CEILING                   |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 20000                      |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 18000                      |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 16000                      |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 14000                      |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 12000                      |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 10000                      |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 9000                       |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 8000                       |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 7000                       |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 6000                       |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 5000                       |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 4500                       |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 4000                       |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 3500                       |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 3000                       |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 2500                       |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 2000                       |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 1800                       |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 1500                       |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 1200                       |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 1000                       |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 900                        |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 800                        |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 700                        |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 600                        |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 500                        |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 400                        |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 300                        |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 200                        |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 100                        |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |
| ≥ 0                          |              |       |        | .  | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .      |

TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER RECORDS PREDICTION ATTACHMENT

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≤ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 5/16 | ≥ ¼ |
| NO CEILING      | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 20000         | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 18000         | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 16000         | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 14000         | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 12000         | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 10000         | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 9000          | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 8000          | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 7000          | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 6000          | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 5000          | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 4500          | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 4000          | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 3500          | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 3000          | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 2500          | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 2000          | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 1800          | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 1500          | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 1200          | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 1000          | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 900           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 800           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 700           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 600           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 500           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 400           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 300           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 200           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| ≥ 100           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |
| 0               | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NATIONAL WEATHER SERVICE DETACHMENT TO WIRELESS MSG

## CEILING VERSUS VISIBILITY

STATION NUMBER \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |     |   |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|---|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ ⅛ |   |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |
| ≤ 0             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   | . |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| CEILING<br>FEET | VISIBILITY STATUTE MILES |     |     |     |     |      |     |      |     |     |     |     |
|-----------------|--------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|
|                 | ≥ 10                     | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≤ ¼ |
| NO CEILING      | .                        | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 20000         | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 18000         | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 16000         | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 14000         | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 12000         | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 10000         | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 9000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 8000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 7000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 6000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 5000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 4500          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 4000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 3500          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 3000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 2500          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 2000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 1800          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 1500          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 1200          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 1000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 900           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 800           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 700           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 600           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 500           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 400           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 300           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 200           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| ≥ 100           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |
| 0               | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   |

TOTAL NUMBER OF OBSERVATIONS

MAY 1961 - 1962

## CEILING VERSUS VISIBILITY

| STATION<br>NAME | STATION<br>NUMBER | YEARS | MONTH | PERCENTAGE FREQUENCY OF OCCURRENCE<br>(FROM HOURLY OBSERVATIONS) |     |      |     |      |     |     |     |     |        |     |     |
|-----------------|-------------------|-------|-------|--|-----|------|-----|------|-----|-----|-----|-----|--------|-----|-----|
|                 |                   |       |       | VISIBILITY STATUTE MILES   |     |      |     |      |     |     |     |     |        |     |     |
| CEILING<br>FEET | ≥ 10              | ≥ 6   | ≥ 5   | ≥ 4  | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING      | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 20000         | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 18000         | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 16000         | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 14000         | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 12000         | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 10000         | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 9000          | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 8000          | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 7000          | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 6000          | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 5000          | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 4500          | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 4000          | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 3500          | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 3000          | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 2500          | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 2000          | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1500          | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1000          | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 500           | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 200           | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 100           | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 0             | .                 | .     | .     | .  | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

## **CEILING VERSUS VISIBILITY**

STATION

**STATION NAME**

VIAS

■ C 67 ■

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

**DATA NUMBER** 11-1000-A

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

TIME

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| CEILING<br>FEET | VISIBILITY, STATUTE MILES |         |         |         |         |         |         |         |         |         |         |          |           |
|-----------------|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-----------|
|                 | ≤ 10                      | 11 - 16 | 17 - 25 | 26 - 34 | 35 - 43 | 44 - 52 | 53 - 61 | 62 - 70 | 71 - 79 | 80 - 88 | 89 - 97 | 98 - 106 | 107 - 115 |
| NO CEILING      |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 20000         |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 18000         |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 16000         |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 14000         |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 12000         |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 10000         |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 9000          |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 8000          |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 7000          |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| > 6000          |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 5000          |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 4500          |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 4000          |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 3500          |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 3000          |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 2500          |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 2000          |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 1750          |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 1500          |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 1250          |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 1000          |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 850           |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 700           |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 600           |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 550           |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 450           |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 350           |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 200           |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 100           |                           |         |         |         |         |         |         |         |         |         |         |          |           |
| ≥ 0             |                           |         |         |         |         |         |         |         |         |         |         |          |           |

TOTAL NUMBER OF OBSERVATIONS

AII A150 345

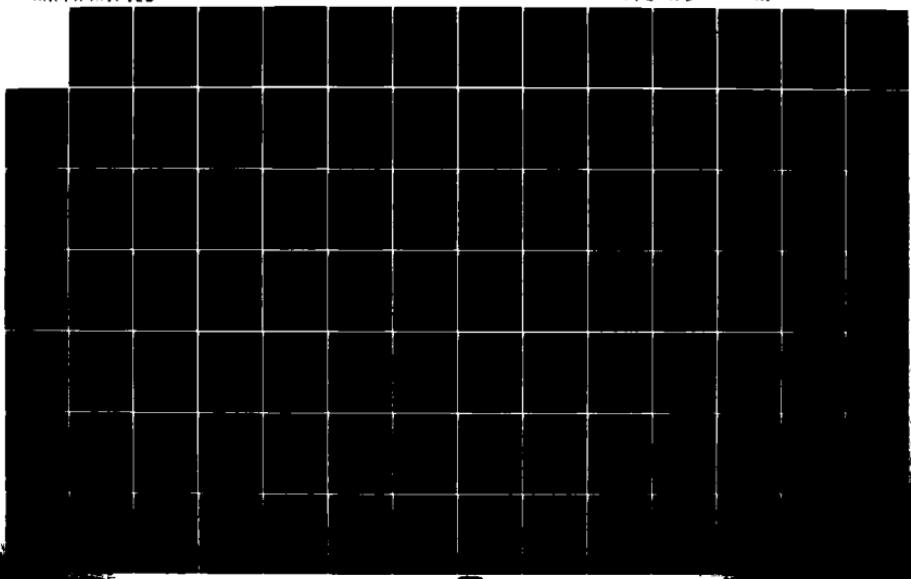
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
ROTA SPAIN(U) NAVAL OCEANOGRAPHY COMMAND DETACHMENT  
ASHEVILLE NC SEP 84

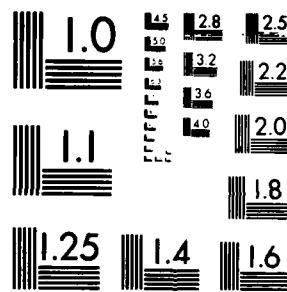
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NL





MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS 1963 A

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

**CEILING VERSUS VISIBILITY**

| STATION | STATION NAME | YEARS | MONTH | HOURLY |
|---------|--------------|-------|-------|--------|
|---------|--------------|-------|-------|--------|

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |        |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING        | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 20000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 18000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 16000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 14000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 12000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 10000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 9000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 8000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 7000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 6000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 5000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 4500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 4000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 3500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 3000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 2500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 2000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 1800            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 1500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 1200            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 1000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 900             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 800             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 700             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 600             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 500             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 400             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 300             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 200             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 100             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| 0                 | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

**CEILING VERSUS VISIBILITY**

| STATION | STATION NAME | YEARS | HOURS |
|---------|--------------|-------|-------|
|---------|--------------|-------|-------|

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |        |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING        | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 20000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 18000          | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 16000          | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 14000          | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 12000          | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 10000          | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 9000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 8000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 7000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 6000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 5000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 4500           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 4000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 3500           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 3000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 2500           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 2000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 1800           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 1500           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 1200           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 1000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 900            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 800            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 700            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 600            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 400            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 300            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 200            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 100            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| IV 0              | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

| STATION<br>CEILING<br>(FEET) | STATION NAME | YEARS | MONTH | PERCENTAGE FREQUENCY OF OCCURRENCE<br>(FROM HOURLY OBSERVATIONS) |     |     |     |     |         |     |         |         |     |       |       |       |        | HOURS 11-8 T |
|------------------------------|--------------|-------|-------|--|-----|-----|-----|-----|---------|-----|---------|---------|-----|-------|-------|-------|--------|--------------|
|                              |              |       |       | ≥ 10   | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2 1/2 | ≥ 2 | ≥ 1 1/2 | ≥ 1 1/4 | ≥ 1 | ≥ 5/8 | ≥ 4/5 | ≥ 3/4 | ≥ 5/16 | ≥ 1/4        |
| NO CEILING                   |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 20000                      |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 18000                      |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 16000                      |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 14000                      |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 12000                      |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 10000                      |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 9000                       |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 8000                       |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 7000                       |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 6000                       |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 5000                       |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 4500                       |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 4000                       |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 3500                       |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 3000                       |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 2500                       |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 2000                       |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 1800                       |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 1500                       |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 1200                       |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 1000                       |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 900                        |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 800                        |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 700                        |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| 600                          |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 500                        |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 400                        |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 300                        |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 200                        |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| ≥ 100                        |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |
| 0                            |              |       |       | .  | .   | .   | .   | .   | .       | .   | .       | .       | .   | .     | .     | .     | .      | .            |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_ HOURS IN DAY \_\_\_\_\_

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |        |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 9000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 7000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 6000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 5000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 4500              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 4000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 3500              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 3000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 2500              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 2000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 1800              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 1500              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 1200              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 1000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 900               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 800               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 700               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 600               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 500               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 400               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 300               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 200               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 0                 | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

| STATION  | STATION NAME | YEARS                      | MONTH | HOURS |     |     |      |     |      |      |     |     |     |        |     |     |
|--|--------------|----------------------------|-------|-------|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|-----|
| PERCENTAGE FREQUENCY OF OCCURRENCE<br>(FROM HOURLY OBSERVATIONS) |              |                            |       |       |     |     |      |     |      |      |     |     |     |        |     |     |
| CEILING<br>(FEET)  |              |                            |       |       |     |     |      |     |      |      |     |     |     |        |     |     |
|  |              | VISIBILITY (STATUTE MILES) |       |       |     |     |      |     |      |      |     |     |     |        |     |     |
|  |              | ≥ 10                       | ≥ 6   | ≥ 5   | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING   |              | •                          | •     | •     | •   | •   | 4    | 5   | 6    | 7    | 8   | 9   | 10  | 11     | 12  | 13  |
| ≥ 20000  |              | 1                          | 1     | 1     | 1   | 1   | 7    | 9   | 11   | 13   | 15  | 17  | 19  | 21     | 23  | 25  |
| ≥ 18000  |              | 1                          | 1     | 1     | 1   | 1   | 2    | 3   | 4    | 5    | 6   | 7   | 8   | 9      | 10  | 11  |
| ≥ 16000  |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 14000  |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 12000  |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 10000  |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 9000   |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 8000   |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 7000   |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 6000   |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 5000   |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 4500   |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 4000   |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 3500   |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 3000   |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 2500   |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 2000   |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 1800   |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 1500   |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 1200   |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 1000   |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 900  |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 800  |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 700  |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 600  |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 500  |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 400  |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 300  |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 200  |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≥ 100  |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |
| ≤ 0  |              | 1                          | 1     | 1     | 1   | 1   | 1    | 1   | 1    | 1    | 1   | 1   | 1   | 1      | 1   | 1   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_  
HOURLY LST

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |        |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING        | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 20000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 18000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 16000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 14000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 12000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 10000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 9000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 8000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 7000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 6000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 5000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 4500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 4000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 3500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 3000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 2500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 2000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 1800            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 1500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 1200            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 1000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 900             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 800             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 700             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 600             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 500             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 400             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 300             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 200             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 100             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| 0                 | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

DIRNAVOCANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

| STATION  | STATION NAME | YEARS                      | MONTH | HOURLY |     |      |     |      |      |     |     |     |     |        |     |     |
|--|--------------|----------------------------|-------|--------|-----|------|-----|------|------|-----|-----|-----|-----|--------|-----|-----|
| <b>PERCENTAGE FREQUENCY OF OCCURRENCE<br/>(FROM HOURLY OBSERVATIONS)</b> |              |                            |       |        |     |      |     |      |      |     |     |     |     |        |     |     |
| CEILING<br>(FEET)  |              | VISIBILITY (STATUTE MILES) |       |        |     |      |     |      |      |     |     |     |     |        |     |     |
|  | ≥ 10         | ≥ 6                        | ≥ 5   | ≥ 4    | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING   | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 20000  | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 18000  | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 16000  | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 14000  | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 12000  | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 10000  | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 9000   | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 8000   | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 7000   | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 6000   | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 5000   | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 4500   | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 4000   | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 3500   | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 3000   | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 2500   | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 2000   | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 1800   | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 1500   | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 1200   | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 1000   | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 900  | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 800  | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 700  | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 600  | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 500  | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 400  | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 300  | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 200  | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| ≥ 100  | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |
| 0  | •            | •                          | •     | •      | •   | •    | •   | •    | •    | •   | •   | •   | •   | •      | •   | •   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

DIRNAVOCANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

| STATION  | STATION NAME | YEAR                       | MONTH | HOURS 11 & 12 |     |     |      |     |      |      |     |     |     |        |     |     |
|--|--------------|----------------------------|-------|---------------|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|-----|
| <b>PERCENTAGE FREQUENCY OF OCCURRENCE<br/>(FROM HOURLY OBSERVATIONS)</b> |              |                            |       |               |     |     |      |     |      |      |     |     |     |        |     |     |
| CEILING<br>(FEET)  |              |                            |       |               |     |     |      |     |      |      |     |     |     |        |     |     |
|  |              | VISIBILITY (STATUTE MILES) |       |               |     |     |      |     |      |      |     |     |     |        |     |     |
|  |              | ≥ 10                       | ≥ 6   | ≥ 5           | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING   |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 20000  |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 18000  |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 16000  |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 14000  |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 12000  |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 10000  |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 9000   |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 8000   |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 7000   |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 6000   |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 5000   |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 4500   |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 4000   |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 3500   |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 3000   |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 2500   |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 2000   |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1800   |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1500   |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1200   |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1000   |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 900  |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 800  |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 700  |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 600  |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 500  |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 400  |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 300  |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 200  |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 100  |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| 0  |              | .                          | .     | .             | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

| STATION  | STATION NAME | YEARS                      | MONT | HOURS | LST |     |      |     |      |      |      |     |     |     |        |     |     |
|--|--------------|----------------------------|------|-------|-----|-----|------|-----|------|------|------|-----|-----|-----|--------|-----|-----|
| PERCENTAGE FREQUENCY OF OCCURRENCE<br>(FROM HOURLY OBSERVATIONS) |              |                            |      |       |     |     |      |     |      |      |      |     |     |     |        |     |     |
| CEILING<br>(FEET)  |              |                            |      |       |     |     |      |     |      |      |      |     |     |     |        |     |     |
|  |              | VISIBILITY (STATUTE MILES) |      |       |     |     |      |     |      |      |      |     |     |     |        |     |     |
|  |              | ≥ 10                       | ≥ 6  | ≥ 5   | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING   |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 20000  |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 18000  |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 16000  |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 14000  |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 12000  |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 10000  |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 9000   |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 8000   |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 7000   |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 6000   |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 5000   |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 4500   |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 4000   |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 3500   |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 3000   |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 2500   |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 2000   |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 1800   |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 1500   |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 1200   |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 1000   |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 900  |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 800  |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 700  |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 600  |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 500  |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 400  |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 300  |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 200  |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| ≥ 100  |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |
| 0  |              | •                          | •    | •     | •   | •   | •    | •   | •    | •    | •    | •   | •   | •   | •      | •   | •   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

DIRNAVOCANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |      |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 8 | ≥ 0 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 6000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 4500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 3500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 2500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1800            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1200            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 900             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 700             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 500             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 300             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 0                 | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

| STATION           | STATION NAME   | YEARS | MONTH |     |     |      |     |      |      |     |     |     |     |
|-------------------|--|-------|-------|-----|-----|------|-----|------|------|-----|-----|-----|-----|
| CEILING<br>(FEET) | PERCENTAGE FREQUENCY OF OCCURRENCE<br>(FROM HOURLY OBSERVATIONS) |       |       |     |     |      |     |      |      |     |     |     |     |
|                   | VISIBILITY (STATUTE MILES)                                       |       |       |     |     |      |     |      |      |     |     |     |     |
|                   | ≥ 10   | ≥ 6   | ≥ 5   | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ |
| NO CEILING        | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 20000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 18000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 16000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 14000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 12000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 10000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 9000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 8000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 7000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 6000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 5000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 4500            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 4000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 3500            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 3000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 2500            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 2000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 1800            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 1500            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 1200            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 1000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 900             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 800             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 700             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 600             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 500             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 400             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 300             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 200             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 100             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| 0                 | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ANCHORAGE, INC

## CEILING VERSUS VISIBILITY

| STATION           | STATION NAME   | YEARS | MONTH |     |     |      |     |      |      |     |     |     |     |        |       |     |
|-------------------|--|-------|-------|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-------|-----|
| CEILING<br>(FEET) | PERCENTAGE FREQUENCY OF OCCURRENCE<br>(FROM HOURLY OBSERVATIONS) |       |       |     |     |      |     |      |      |     |     |     |     |        |       |     |
|                   | VISIBILITY (STATUTE MILES)                                       |       |       |     |     |      |     |      |      |     |     |     |     |        |       |     |
|                   | ≥ 10   | ≥ 6   | ≥ 5   | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/16 | ≥ 1/4 | ≥ 0 |
| NO CEILING        | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 20000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 18000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 16000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 14000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 12000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 10000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 9000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 8000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 7000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 6000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 5000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 4500            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 4000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 3500            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 3000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 2500            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 2000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 1800            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 1500            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 1200            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 1000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 900             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 800             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 700             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 600             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 500             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 400             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 300             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 200             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| ≥ 100             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |
| 0                 | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT, ANCHORAGE, ALASKA

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_  
HOURS LEFT \_\_\_\_\_

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |        |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING        | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 20000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 18000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 16000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 14000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 12000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 10000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 9000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 8000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 7000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 6000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 5000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 4500            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 4000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 3500            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 3000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 2500            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 2000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 1800            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 1500            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 1200            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 1000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 900             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 800             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 700             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 600             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 500             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 400             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 300             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 200             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 100             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| 0                 | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ 1 | ≥ 1 | ≥ 1 | ≥ 1 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 7000              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 6000              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 5000              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 4500              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 4000              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 3500              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 3000              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 2500              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 2000              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 1800              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 1500              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 1200              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 1000              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 900               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 800               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 700               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 600               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 500               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 400               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 300               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 200               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 100               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 0                 | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

| STATION           | STATION NAME | YEARS                      | NORTH       |
|-------------------|--------------|----------------------------|-------------|
| CEILING<br>(FEET) |              | VISIBILITY (STATUTE MILES) | HOURS (LST) |
| NO CEILING        |              |                            |             |
| ≥ 20000           |              |                            |             |
| 18000             |              |                            |             |
| 16000             |              |                            |             |
| 14000             |              |                            |             |
| 12000             |              |                            |             |
| 10000             |              |                            |             |
| 9000              |              |                            |             |
| 8000              |              |                            |             |
| 7000              |              |                            |             |
| 6000              |              |                            |             |
| 5000              |              |                            |             |
| 4500              |              |                            |             |
| 4000              |              |                            |             |
| 3500              |              |                            |             |
| 3000              |              |                            |             |
| 2500              |              |                            |             |
| 2000              |              |                            |             |
| 1800              |              |                            |             |
| 1500              |              |                            |             |
| 1200              |              |                            |             |
| 1000              |              |                            |             |
| 900               |              |                            |             |
| 800               |              |                            |             |
| 700               |              |                            |             |
| 600               |              |                            |             |
| 500               |              |                            |             |
| 400               |              |                            |             |
| 300               |              |                            |             |
| 200               |              |                            |             |
| 100               |              |                            |             |
| 0                 |              |                            |             |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE NC

## CEILING VERSUS VISIBILITY

| STATION  | STATION NAME | YEARS                      | MONTH | HOURS |     |     |      |     |      |      |     |     |     |     |      |      |      |      |   |
|--|--------------|----------------------------|-------|-------|-----|-----|------|-----|------|------|-----|-----|-----|-----|------|------|------|------|---|
| PERCENTAGE FREQUENCY OF OCCURRENCE<br>(FROM HOURLY OBSERVATIONS) |              |                            |       |       |     |     |      |     |      |      |     |     |     |     |      |      |      |      |   |
|  |              |                            |       |       |     |     |      |     |      |      |     |     |     |     |      |      |      |      |   |
| CEILING<br>(FEET)  |              | VISIBILITY (STATUTE MILES) |       |       |     |     |      |     |      |      |     |     |     |     |      |      |      |      |   |
|  |              | ≥ 10                       | ≥ 6   | ≥ 5   | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 14 | ≥ 12 | ≥ 10 |   |
| NO CEILING   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 20000  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 18000  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 16000  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 14000  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 12000  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 10000  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 9000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 8000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 7000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 6000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 5000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 4500   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 4000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 3500   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 3000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 2500   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 2000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 1800   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 1500   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 1200   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 1000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 800  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 700  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 600  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 500  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 400  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 300  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 200  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| ≥ 100  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |
| 0  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .    | . |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

DIRNAVOCANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_  
HOURS 0000-0000

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |        |       |       |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-------|-------|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 3 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/16 | ≥ 1/8 | ≥ 1/4 | ≥ 0 |
| NO CEILING        | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 20000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 18000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 16000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 14000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 12000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 10000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 9000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 8000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 7000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 6000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 5000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 4500            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 4000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 3500            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 3000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 2500            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 2000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 1800            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 1500            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 1200            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 1000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 900             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 800             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 700             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 600             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 500             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 400             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 300             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 200             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| ≥ 100             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |
| 0                 | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *     | *     | *   |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

| STATION  | STATION NAME | YEAR                       | MONTH | HOURS |     |     |      |     |      |      |     |     |     |     |        |     |     |
|--|--------------|----------------------------|-------|-------|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-----|-----|
| PERCENTAGE FREQUENCY OF OCCURRENCE<br>(FROM HOURLY OBSERVATIONS) |              |                            |       |       |     |     |      |     |      |      |     |     |     |     |        |     |     |
| CEILING<br>(FEET)  |              |                            |       |       |     |     |      |     |      |      |     |     |     |     |        |     |     |
|  |              | VISIBILITY (STATUTE MILES) |       |       |     |     |      |     |      |      |     |     |     |     |        |     |     |
|  |              | ≥ 10                       | ≥ 6   | ≥ 5   | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 20000  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 18000  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 16000  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 14000  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 12000  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 10000  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 9000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 8000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 7000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 6000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 5000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 4500   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 4000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 3500   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 3000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 2500   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 2000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1800   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1500   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1200   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1000   |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 900  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 800  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 700  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 600  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 500  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 400  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 300  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 200  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 100  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| 0  |              | .                          | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

| STATION           | STATION NAME   | YEARS | NORTH |     |     |      |     |      |      |     |     |     |     |        |     |        |
|-------------------|--|-------|-------|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-----|--------|
| CEILING<br>(FEET) | PERCENTAGE FREQUENCY OF OCCURRENCE<br>(FROM HOURLY OBSERVATIONS) |       |       |     |     |      |     |      |      |     |     |     |     |        |     | HOURLY |
|                   | VISIBILITY (STATUTE MILES)                                       |       |       |     |     |      |     |      |      |     |     |     |     |        |     |        |
|                   | ≥ 10   | ≥ 6   | ≥ 5   | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 5/16 | ≥ ¼ | ≥ 0    |
| NO CEILING        | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 20000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 18000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 16000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 14000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 12000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 10000           | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 9000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 8000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 7000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 6000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 5000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 4500            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 4000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 3500            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 3000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 2500            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 2000            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 1800            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 1500            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 1200            | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 1000            | 1  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 900             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 800             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 700             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 600             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 500             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 400             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 300             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 200             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| ≥ 100             | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |
| 0                 | .  | .     | .     | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .      |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

DIRNAVOCANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT - KURE ISLAND

## CEILING VERSUS VISIBILITY

STATION NAME \_\_\_\_\_ DATE \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ |
| NO CEILING        | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 20000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 18000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 16000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 14000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 12000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 10000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 9000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 8000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 7000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 6000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 5000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 4500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 4000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 3500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 3000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 2500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 2000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 1800            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 1500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 1200            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 1000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 900             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 800             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 700             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 600             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 500             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 400             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 300             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 200             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| ≥ 100             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |
| 0                 | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ NORTH \_\_\_\_\_

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |        |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 5 16 | ≥ 4 | ≥ 0 |
| NO CEILING        | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *      | *   | *   |
| ≥ 20000           | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 18000           | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 16000           | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 14000           | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 12000           | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 10000           | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 9000            | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 8000            | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 7000            | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 6000            | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 5000            | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 4500            | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 4000            | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 3500            | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 3000            | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 2500            | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 2000            | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 1800            | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 1500            | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 1200            | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 1000            | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 900             | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 800             | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 700             | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 600             | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 500             | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 400             | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 300             | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 200             | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| ≥ 100             | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |
| 0                 | -                          | -   | -   | -   | -   | -    | -   | -    | -    | -   | -   | -   | -   | -      | -   | -   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT AMHERSTVILLE, N.Y.

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ NORTH \_\_\_\_\_ HOURS LAST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |      |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 1 | ≥ 0 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 0             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

**NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC**

# **CEILING VERSUS VISIBILITY**

STATION STATION NAME YEARS BORTH

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

**TOTAL NUMBER OF OBSERVATIONS**

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, AIR FORCE, INC.

## CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH HOURS . . .

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |      |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 8 | ≥ 4 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, WASHINGTON

## CEILING VERSUS VISIBILITY

STATION NUMBER      STATION NAME      YEARS      MONTHS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |      |      |      |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|------|------|------|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 14 | ≥ 10 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 6000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 4500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 3500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 2500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 1800            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 1500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 1200            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 900             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 700             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 500             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 300             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |
| ≥ 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    |

TOTAL NUMBER OF OBSERVATIONS

## **CEILING VERSUS VISIBILITY**

MAYA WEATHER AT THE 1997 AUSTIN 3000 AIRPORT 17

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

**TOTAL NUMBER OF OBSERVATIONS:**

NAVAL WEATHER SERVICE ATTACHMENT ANHEB 86-1

## CEILING VERSUS VISIBILITY

| STATION         | STATION NAME               | YEARS | MOTH | HOURS LIST |     |      |     |      |     |     |     |     |       |     |     |
|-----------------|----------------------------|-------|------|------------|-----|------|-----|------|-----|-----|-----|-----|-------|-----|-----|
| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |       |      |            |     |      |     |      |     |     |     |     |       |     |     |
|                 | ≥ 10                       | ≥ 6   | ≥ 5  | ≥ 4        | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 3 ½ | ≥ ½ | ≥ 0 |
| NO CEILING      | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 20000         | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 18000         | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 16000         | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 14000         | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 12000         | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 10000         | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 9000          | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 8000          | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 7000          | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 6000          | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 5000          | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 4500          | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 4000          | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 3500          | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 3000          | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 2500          | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 2000          | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 1800          | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 1500          | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 1200          | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 1000          | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 900           | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 800           | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 700           | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 600           | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 500           | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 400           | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 300           | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 200           | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| ≥ 100           | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |
| 0               | *                          | *     | *    | *          | *   | *    | *   | *    | *   | *   | *   | *   | *     | *   | *   |

TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER SERVICE - DETROIT METEOROLOGICAL OFFICE

## CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTHS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |     |      |     |      |      |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 8 | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO CEILING      | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT ADEN, YEMEN

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_  
HOURLY DATA

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |      |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|------|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 1 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 20000           | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 18000           | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 16000           | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 14000           | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 12000           | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 10000           | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 9000            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 8000            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 7000            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 6000            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 5000            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 4500            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 4000            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 3500            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 3000            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 2500            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 2000            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 1800            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 1500            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 1200            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 1000            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 900             | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 800             | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 700             | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 600             | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 500             | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 400             | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 300             | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 200             | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| ≥ 100             | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |
| 0                 | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -   | -    | -   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE - DETACHMENT WASHINGTON

## CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTHS HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

ANNUAL ANALYSIS OF CEILING AND VISIBILITY

## CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTHS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |        |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|--------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DOCUMENTATION APPROVAL NO.

## CEILING VERSUS VISIBILITY

STATION NUMBER: \_\_\_\_\_ STATION NAME: \_\_\_\_\_ YEARS: \_\_\_\_\_ MONTH: \_\_\_\_\_ HOURS: \_\_\_\_\_

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 6000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 4500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 3500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 2500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1800            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1200            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 900             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 700             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 500             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 300             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 0                 | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |

TOTAL NUMBER OF OBSERVATIONS: \_\_\_\_\_

DIPNAV OCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ATHEVELE, NC

## CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH HOURS LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |      |      |      |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|------|------|------|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 12 | ≥ 10 |
| NO CEILING        | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 20000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 18000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 16000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 14000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 12000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 10000           | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 9000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 8000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 7000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 6000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 5000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 4500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 4000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 3500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 3000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 2500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 2000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 1800            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 1500            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 1200            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 1000            | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 900             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 800             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 700             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 600             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 500             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 400             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 300             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 200             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| ≥ 100             | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |
| 0                 | •                          | •   | •   | •   | •   | •    | •   | •    | •    | •   | •   | •   | •   | •    | •    | •    |

TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER SERVICE ATTACHMENT ATTACHEVILLE, INC

## CEILING VERSUS VISIBILITY

STATION NUMBER \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 6000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 4500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 3500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 2500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1800            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1200            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 900             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 700             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 500             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 300             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| 0                 | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

DIFNAVOCNEANMET SMOS

NAVAL WEATHER INFORMATION REPORTING REQUIREMENTS

## CEILING VERSUS VISIBILITY

| STATION           | STATION NAME   | YEARS | MONTH | HOURLY |     |      |     |      |     |      |     |     |     |     |
|-------------------|--|-------|-------|--------|-----|------|-----|------|-----|------|-----|-----|-----|-----|
| CEILING<br>(FEET) | PERCENTAGE FREQUENCY OF OCCURRENCE<br>(FROM HOURLY OBSERVATIONS) |       |       |        |     |      |     |      |     |      |     |     |     |     |
|                   | VISIBILITY (STATUTE MILES)                                       |       |       |        |     |      |     |      |     |      |     |     |     |     |
|                   | ≥ 10   | ≥ 6   | ≥ 5   | ≥ 4    | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ 1¼ | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO CEILING        | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 20000           | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 18000           | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 16000           | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 14000           | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 12000           | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 10000           | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 9000            | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 8000            | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 7000            | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 6000            | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 5000            | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 4500            | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 4000            | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 3500            | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 3000            | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 2500            | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 2000            | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 1800            | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 1500            | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 1200            | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 1000            | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 900             | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 800             | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 700             | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 600             | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 500             | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 400             | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 300             | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 200             | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 100             | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 0               | .  | .     | .     | .      | .   | .    | .   | .    | .   | .    | .   | .   | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER SERVICE - SAN FRANCISCO, CALIFORNIA

## CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |      |      |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|------|------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 12 | ≥ 8 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .   |

TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER SERVICE - WASHINGTON, D.C.

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTHS \_\_\_\_\_ HOURS \_\_\_\_\_

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY, STATUTE MILES |     |     |     |     |      |     |      |     |      |      |      |      |
|-----------------|---------------------------|-----|-----|-----|-----|------|-----|------|-----|------|------|------|------|
|                 | ≥ 10                      | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ .9 | ≥ .8 | ≥ .7 | ≥ .6 |
| NO CEILING      | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 20000         | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 18000         | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 16000         | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 14000         | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 12000         | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 10000         | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 9000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 8000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 7000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 6000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 5000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 4500          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 4000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 3500          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 3000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 2500          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 2000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 1800          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 1500          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 1200          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 1000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 900           | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 800           | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 700           | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 600           | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 500           | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 400           | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 300           | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 200           | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 100           | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| 0               | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NATIONAL WEATHER RECORDS FOR THE UNITED STATES

## CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTHS HOURS

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

GERMANY/CLEANMET 5505

# CEILING VERSUS VISIBILITY

MANAGING AN ALIENATED AND DISMISSED PARENT IN THE COURTROOM

- - - - -  
STATION

STATION 單車

۷۶۲۹۱

第二頁

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

**TOTAL NUMBER OF OBSERVATIONS**

## CEILING VERSUS VISIBILITY

ANALYSIS OF AIRPORT CEILINGS AND VISIBILITY

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≤ ¼ |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

ANALYSIS OF AIRPORT CEILINGS AND VISIBILITY

ANALYSIS OF WEATHER REPORTS FOR THE MONTH OF AUGUST 1968

## CEILING VERSUS VISIBILITY

STATION NUMBER: STATION NAME: YEARS: MONTH: HOURS:

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |       |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ¼ | ≥ ½ | ≥ 5 ½ | ≥ ½ | ≥ 0 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .     | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

## CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE - ESTABLISHED 1870 - WASHINGTON, D.C.

STATION NUMBER \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |      |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|------|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ 1 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 6000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 4500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 3500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 2500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1800            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1200            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 900             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 700             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 500             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 300             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE NC

## CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |        |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 5/16 | ≥ . | ≥ 0 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 18000        | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 16000        | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 14000        | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 12000        | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 10000        | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 9000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 8000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 7000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 6000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 5000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 4500         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 4000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 3500         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 3000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 2500         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 2000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 1800         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 1500         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 1200         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 1000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 900          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 800          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 700          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 600          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 400          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 300          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 200          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 100          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |
| IV 0            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER INFORMATION SYSTEMS INFORMATION

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT ANN ARBOR, MICHIGAN

# **CEILING VERSUS VISIBILITY**

**TOTAL NUMBER OF OBSERVATIONS**

DIRNAVOCNEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ANCHORAGE, ALASKA

## CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH HOURS U.S.T.

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |      |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 1 | ≥ 0 |
| NO CEILING        | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 20000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 18000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 16000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 14000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 12000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 10000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 9000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 8000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 7000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 6000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 5000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 4500            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 4000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 3500            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 3000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 2500            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 2000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 1800            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 1500            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 1200            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 1000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 900             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 800             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 700             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 600             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 500             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 400             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 300             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 200             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| ≥ 100             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |
| 0                 | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *   | *   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION NORTH STATION NAME YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |        |       |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-------|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 3/16 | ≥ 1/8 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 6000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 4500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 3500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 2500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 1800            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 1500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 1200            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 900             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 700             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 500             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 300             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| ≥ 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |
| 0                 | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DEPARTMENT OF THE NAVY

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |      |      |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|------|------|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 10 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 6000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 4500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 3500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 2500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 1800            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 1500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 1200            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 700             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 500             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 300             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| ≥ 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |
| 0                 | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT NO. 1, PHILADELPHIA

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_ HOURS \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |      |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 8 | ≥ 0 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE BUREAU - WHEATFIELD, NEW YORK

## CEILING VERSUS VISIBILITY

STATION NORTH STATION NAME YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |        |       |       |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-------|-------|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/16 | ≥ 1/8 | ≥ 1/4 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| 1500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .     | .     |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHVILLE, NC

## CEILING VERSUS VISIBILITY

STATION NUMBER: STATION NAME: YEARS: MONTH: HOURS: DAY:

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |      |      |      |      |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|------|------|------|------|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ .8 | ≥ .6 | ≥ .4 | ≥ .2 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 6000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 4500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 3500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 2500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 1800            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 1500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 1200            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 900             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 700             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 500             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 300             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |
| ≥ 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .    | .    | .    | .    |

TOTAL NUMBER OF OBSERVATIONS

# **CEILING VERSUS VISIBILITY**

NATURAL AND ARTIFICIAL POLY(1,4-PHENYLICARBOXYLIC ACID) ANALOGUE 31

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

**TOTAL NUMBER OF OBSERVATIONS**

## CEILING VERSUS VISIBILITY

ANALYSIS OF CEILING AND VISIBILITY OBSERVATIONS

STATION NUMBER      STATION NAME      YEAR      MONTH

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |      |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≤ ¼ |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 450           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

(Ceiling and Visibility Analysis)

## **CEILING VERSUS VISIBILITY**

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS.

**TOTAL NUMBER OF OBSERVATIONS**

## **CEILING VERSUS VISIBILITY**

ANALYSIS OF RIFAMPICIN-INDUCED HEPATITIS IN THE U.S. AND U.K.

STATION STATION NAME —————— YEARS —————— MONTHS

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

TOTAL NUMBER OF OBSERVATIONS

LAWYER'S GUIDE TO THE PRACTICE OF LAW

NOAA/NWS AT THE UNIVERSITY OF DAUGLASSVILLE, PENNSYLVANIA

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ STATE \_\_\_\_\_ NORTHERN HEMISPHERE

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 6000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 4500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 3500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 2500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 1800            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 1500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 1200            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 900             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 700             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 500             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 300             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| IV              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

DEHNAY-OCEANSET SWOS

NAVAL WEATHER SERVICE, DETACHMENT TO THE REVENGE

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTHS \_\_\_\_\_ HOURS \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 6000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 4500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 3500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 2500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1800            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1200            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 900             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 700             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 500             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 300             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≤ 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NATIONAL WEATHER SERVICE DEPARTMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |      |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 4 | ≤ 0 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 6000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 4500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 3500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 2500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1800            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1200            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 900             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 700             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 500             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 300             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |
| ≤ 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NATIONAL WEATHER SERVICE - BUREAU OF METEOROLOGY

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEAR \_\_\_\_\_ MONTH \_\_\_\_\_ HOURS \_\_\_\_\_

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |      |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ¼ | ≥ ½ | ≥ 16 | ≥ 1 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

ORIGINATOR/DEPARTMENT: SMOS

NAVAL WEATHER INFORMATION CENTER

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTHS \_\_\_\_\_ HOURS \_\_\_\_\_

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |      |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 8 | ≤ 0 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 0             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |        |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|--------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/16 | ≥ . | ≥ 0 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 6000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 4500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 3500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 2500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1800            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1600            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1200            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 900             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 700             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 500             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 300             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |
| ≥ 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .      | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE, EMBASSY OF THE UNITED STATES  
DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTHS \_\_\_\_\_ HOURS \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |      |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 1 | ≥ 0 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 18000             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 16000             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 14000             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 12000             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 10000             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 9000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 8000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 7000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 6000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 5000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 4500              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 4000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 3500              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 3000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 2500              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 2000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 1800              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 1500              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 1200              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 1000              | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 900               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 800               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 700               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 600               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 500               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 400               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 300               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 200               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 100               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |
| 0                 | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |      |      |     |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|------|------|-----|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 12 | ≥ 8 | ≥ 4 |
| NO CEILING        | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 20000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 18000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 16000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 14000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 12000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 10000           | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 9000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 8000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 7000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 6000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 5000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 4500            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 4000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 3500            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 3000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 2500            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 2000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 1800            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 1500            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 1200            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 1000            | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 900             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 800             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 700             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 600             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 500             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 400             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 300             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 200             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| ≥ 100             | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |
| 0                 | *                          | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   | *    | *    | *   | *   |

TOTAL NUMBER OF OBSERVATIONS

NATIONAL WEATHER SERVICE - WASHINGTON, D. C.

## CEILING VERSUS VISIBILITY

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |        |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|--------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ¼ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

DIA NAVIGEANNET - DMWS

NATIONAL WEATHER SERVICE DETACHMENT WINDSOCK

# CEILING VERSUS VISIBILITY

STATION YEAR STATION NAME MONTH

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 0 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

## CEILING VERSUS VISIBILITY

| STATION<br>CEILING<br>FEET | VISIBILITY (STATUTE MILES) |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |
|----------------------------|----------------------------|----------|----------|----------|----------|---------------------|----------|---------------------|---------------------|----------|--------------------|--------------------|--------------------|
|                            | $\geq 10$                  | $\geq 6$ | $\geq 5$ | $\geq 4$ | $\geq 3$ | $\geq 2\frac{1}{2}$ | $\geq 2$ | $\geq 1\frac{1}{2}$ | $\geq 1\frac{1}{4}$ | $\geq 1$ | $\geq \frac{3}{4}$ | $\geq \frac{1}{2}$ | $\geq \frac{1}{4}$ |
| NO CEILING                 | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 20000$               | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 18000$               | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 16000$               | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 14000$               | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 12000$               | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 10000$               | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 9000$                | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 8000$                | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 7000$                | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 6000$                | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 5000$                | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 4500$                | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 4000$                | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 3500$                | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 3000$                | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 2500$                | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 2000$                | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 1800$                | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 1500$                | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 1200$                | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 1000$                | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 900$                 | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 800$                 | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 700$                 | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 600$                 | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 500$                 | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 400$                 | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 300$                 | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 200$                 | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 100$                 | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |
| $\geq 0$                   | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  |

TOTAL NUMBER OF OBSERVATIONS

## **CEILING VERSUS VISIBILITY**

Author: Dr. R. L. Jones, Ph.D., M.S., M.A., M.B., B.S., F.R.S., F.R.C.P., F.R.C.O., F.R.C.R.

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

TOTAL NUMBER OF OBSERVATIONS

REFERENCES

## CEILING VERSUS VISIBILITY

STATION NAME: \_\_\_\_\_ CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| CEILING<br>FEET | VISIBILITY STATUTE MILES |     |     |     |     |      |     |      |     |      |     |     |     |
|-----------------|--------------------------|-----|-----|-----|-----|------|-----|------|-----|------|-----|-----|-----|
|                 | ≥ 10                     | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ 1¼ | ≥ ¾ | ≥ ½ | ≤ ¼ |
| NO CEILING      | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 20000         | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 18000         | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 16000         | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 14000         | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 12000         | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 10000         | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 9000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 8000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 7000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 6000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 5000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 4500          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 4000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 3500          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 3000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 2500          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 2000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 1800          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 1500          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 1200          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 1000          | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 900           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 800           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 700           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 600           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 500           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 400           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 300           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 200           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| ≥ 100           | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |
| 0               | *                        | *   | *   | *   | *   | *    | *   | *    | *   | *    | *   | *   | *   |

TOTAL NUMBER OF OBSERVATIONS

(This form is available at no cost.)

## CEILING VERSUS VISIBILITY

ANNUAL WEATHER REPORTS - 1960

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 3100          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 0             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

DEPT. OF AGRICULTURE - 1960

## CEILING VERSUS VISIBILITY

ANNUAL WEATHER REPORT - CEILINGS AND VISIBILITY

STATION NUMBER \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTHS \_\_\_\_\_

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |        |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|--------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 1/16 | ≥ ¼ |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 1900          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |
| ≥ 0             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .      | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

CEILINGS CLEARANCE T. 1000

NAVAL WEATHER SERVICE, DETACHMENT, AIR FORCE, NO.

## CEILING VERSUS VISIBILITY

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |      |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|------|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ 1 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 |
| NO CEILING      | *                          | *   | *   | *   | *   | *    | *   | *    | *   | *   | *   | *   | *    | *   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER BUREAU - NATIONAL METEOROLOGICAL CENTER

## CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTHS

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |        |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|--------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ¼ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING      | +                          | +   | +   | +   | +   | +    | +   | +    | +   | +   | +   | +      | +   | +   |
| ≥ 20000         | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 18000         | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 16000         | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 14000         | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 12000         | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 10000         | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| 9000            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 8000          | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| 7000            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 6000          | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| 5000            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 4500          | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| 4000            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 3500          | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| 3000            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 2500          | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| 2000            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 1800          | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| 1500            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 1200          | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| 1000            | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 900           | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| 800             | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 700           | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| 600             | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 500           | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| 400             | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 300           | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| 200             | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| ≥ 100           | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |
| 0               | -                          | -   | -   | -   | -   | -    | -   | -    | -   | -   | -   | -      | -   | -   |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER RESEARCH DEPARTMENT, ALEXANDRIA, VA

## CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH  
HOURS CITY

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |      |      |      |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|------|------|------|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 12 | ≥ 10 | ≥ 8 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 6000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 4500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 3500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 2500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 1800            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 1500            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 1200            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 900             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 700             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 500             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 300             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| ≥ 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |
| 0                 | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   | .    | .    | .    | .   |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ALEXANDRIA, LA

## CEILING VERSUS VISIBILITY

| STATION<br>CEILING<br>FEET | STATION NAME | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |        |     |
|----------------------------|--------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|--------|-----|
|                            |              | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ |
| NO CEILING                 |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 20000                    |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 18000                    |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 16000                    |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 14000                    |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 12000                    |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 10000                    |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 9000                     |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 8000                     |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 7000                     |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 6000                     |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 5000                     |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 4500                     |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 4000                     |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 3500                     |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 3000                     |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 2500                     |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 2000                     |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 1800                     |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 1500                     |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 1200                     |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 1000                     |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 900                      |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 800                      |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 700                      |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 600                      |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 500                      |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 400                      |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 300                      |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 200                      |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| ≥ 100                      |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |
| 0                          |              | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .      | .   |

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION NO. STATION NAME STATE YEARS MONTH HOURS/LIST

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |        |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|--------|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 5/16 | ≥ ¼ | ≥ 0 |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .      | .   | .   |

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

NAVAL WEATHER SERVICE DEPARTMENT OF THE NAVY

## CEILING VERSUS VISIBILITY

| STATION<br>CEILING<br>(FEET) | STATION NAME | YEAR | MONTH | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |      |     |     |     |     |
|------------------------------|--------------|------|-------|----------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|
|                              |              |      |       | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ 0 |
| NO CEILING                   |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 20000                      |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 18000                      |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 16000                      |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 14000                      |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 12000                      |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 10000                      |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 9000                       |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 8000                       |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 7000                       |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 6000                       |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 5000                       |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 4500                       |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 4000                       |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 3500                       |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 3000                       |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 2500                       |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 2000                       |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 1800                       |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 1500                       |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 1200                       |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 1000                       |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 900                        |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 800                        |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 600                        |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 500                        |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 400                        |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 300                        |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 200                        |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| ≥ 100                        |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |
| 0                            |              |      |       | .                          | .   | .   | .   | .   | .    | .   | .    | .    | .   | .   | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

NOAA WEATHER SERVICE - FAIRBANKS, ALASKA

## CEILING VERSUS VISIBILITY

| STATION<br>CEILING<br>(FEET) | STATION NAME | YEARS | MONTH | VISIBILITY (STATUTE MILES) |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |                     |                    |
|------------------------------|--------------|-------|-------|----------------------------|----------|----------|----------|----------|---------------------|----------|---------------------|---------------------|----------|--------------------|--------------------|--------------------|---------------------|--------------------|
|                              |              |       |       | $\geq 10$                  | $\geq 6$ | $\geq 5$ | $\geq 4$ | $\geq 3$ | $\geq 2\frac{1}{2}$ | $\geq 2$ | $\geq 1\frac{1}{2}$ | $\geq 1\frac{1}{4}$ | $\geq 1$ | $\geq \frac{3}{4}$ | $\geq \frac{1}{2}$ | $\geq \frac{1}{4}$ | $\geq \frac{1}{16}$ | $\geq \frac{1}{4}$ |
| NO CEILING                   |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| $\geq 20000$                 |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| $\geq 18000$                 |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| $\geq 16000$                 |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| $\geq 14000$                 |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| $\geq 12000$                 |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 10000                        |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 9000                         |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 8000                         |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 7000                         |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 6000                         |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 5000                         |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 4500                         |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 4000                         |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 3500                         |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 3000                         |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 2500                         |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 2000                         |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 1800                         |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 1500                         |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 1200                         |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 1000                         |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 900                          |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 800                          |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 700                          |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 600                          |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 500                          |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 400                          |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 300                          |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 200                          |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 100                          |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |
| 0                            |              |       |       | .                          | .        | .        | .        | .        | .                   | .        | .                   | .                   | .        | .                  | .                  | .                  | .                   | .                  |

TOTAL NUMBER OF OBSERVATIONS

DIA NAV OCEANMET - SMOI

NATIONAL WEATHER SERVICE DATA REPORT ANALYSIS

## CEILING VERSUS VISIBILITY

| STATION<br>NUMBER | STATION NAME | CITY | STATE | LATITUDE | LONGITUDE | ELEVATION<br>FEET | YEARS<br>OF RECORD | MONTH | HOUR | PERCENTAGE FREQUENCY OF OCCURRENCE<br>(FROM HOURLY OBSERVATIONS) |     |     |     |     |      |     |      |     |     |     |     |      |      |     |     |     |     |   |   |
|-------------------|--------------|------|-------|----------|-----------|-------------------|--------------------|-------|------|--|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|------|------|-----|-----|-----|-----|---|---|
|                   |              |      |       |          |           |                   |                    |       |      | VISIBILITY, STATUTE MILES  |     |     |     |     |      |     |      |     |     |     |     |      |      |     |     |     |     |   |   |
|                   |              |      |       |          |           |                   |                    |       |      | ≥ 10   | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 12 | ≥ 8 | ≥ 4 | ≥ 2 | ≥ 1 |   |   |
|                   |              |      |       |          |           |                   |                    |       |      | NO CEILING   | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 20000           | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 18000           | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 16000           | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 14000           | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 12000           | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 10000           | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 9000            | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 8000            | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 7000            | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 6000            | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 5000            | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 4500            | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 4000            | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 3500            | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 3000            | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 2500            | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 2000            | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 1800            | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 1500            | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 1200            | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 1000            | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 900             | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 800             | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 700             | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 600             | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 500             | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 400             | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 300             | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 200             | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | ≥ 100             | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . |   |
|                   |              |      |       |          |           | 0                 | .                  | .     | .    | .  | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .    | .   | .   | .   | .   | . | . |

TOTAL NUMBER OF OBSERVATIONS

## **CEILING VERSUS VISIBILITY**

NAVAL WEATHER SERVICE ATTACHMENT A BULLETIN

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

**TOTAL NUMBER OF OBSERVATIONS**

UNIVERSAL CLEANER 3000

NAVAL WEATHER INFORMATION CENTER - WASHINGTON, D.C.

# CEILING VERSUS VISIBILITY

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |     |
|-----------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|
|                 | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≤ ¼ |
| NO CEILING      | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 20000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 18000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 16000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 14000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 12000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 10000         | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 9000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 8000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 7000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 6000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 5000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 4500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 4000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 3500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 3000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 2500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 2000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 1800          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 1500          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 1200          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 1000          | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 900           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 800           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 700           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 600           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 500           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 400           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 300           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 200           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| ≥ 100           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |
| 0               | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

在《新編中華書局影印本》中，「中華書局影印本」是「中華書局影印本」的縮寫。

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

**TOTAL NUMBER OF OBSERVATIONS**

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| CEILING<br>FEET | VISIBILITY STATUTE MILES |     |     |     |     |      |     |      |      |     |     |     |     |
|-----------------|--------------------------|-----|-----|-----|-----|------|-----|------|------|-----|-----|-----|-----|
|                 | ≥ 10                     | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1¼ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ |
| NO CEILING      | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 20000         | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 18000         | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 16000         | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 14000         | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 12000         | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 10000         | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 9000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 8000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 7000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 6000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 5000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 4500          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 4000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 3500          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 3000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 2500          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 1800          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 1500          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 1200          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 1000          | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 900           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 800           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 700           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 600           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 500           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 400           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 300           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 200           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 100           | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |
| ≥ 0             | *                        | *   | *   | *   | *   | *    | *   | *    | *    | *   | *   | *   | *   |

TOTAL NUMBER OF OBSERVATIONS

## CEILING VERSUS VI

STATION

STATION NAME

YEAR

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| CEILING<br>FEET | VISIBILITY, STATUTE MILES |     |     |     |     |      |     |      |     |     |     |     |
|-----------------|---------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|
|                 | ≥ 10                      | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ |
| NO CEILING      | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 20000         | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 18000         | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 16000         | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 14000         | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 12000         | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 10000         | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 9000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 8000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 7000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 6000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 5000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 4500          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 4000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 3500          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 3000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 2500          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 2000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 1800          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 1600          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 1400          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 1200          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 1000          | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 800           | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 600           | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 400           | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 200           | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 100           | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |
| ≥ 0             | .                         | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   |

TOTAL NUMBER OF OBSERVATIONS

## **CEILING VERSUS VISIBILITY**

ANSWER: A 45-year-old man with a history of hypertension and hyperlipidemia.

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

**TOTAL NUMBER OF OBSERVATIONS**

NAVAL WEATHER SERVICE DATACOMMITTEE REPORT NO. 4

## CEILING VERSUS VISIBILITY

STATION NUMBER STATION NAME YEARS MONTHS HOURS

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |     |     |     |     |      |     |      |     |     |     |     |      |     |
|-------------------|----------------------------|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|------|-----|
|                   | ≥ 10                       | ≥ 6 | ≥ 5 | ≥ 4 | ≥ 3 | ≥ 2½ | ≥ 2 | ≥ 1½ | ≥ 1 | ≥ ¾ | ≥ ½ | ≥ ¼ | ≥ 16 | ≥ 8 |
| NO CEILING        | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 20000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 18000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 16000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 14000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 12000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 10000           | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 9000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 8000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 7000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 6000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 5000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 4500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 4000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 3500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 3000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 2500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 2000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1800            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1500            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1200            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 1000            | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 900             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 800             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 700             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 600             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 500             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 400             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 300             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 200             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| ≥ 100             | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |
| 0                 | .                          | .   | .   | .   | .   | .    | .   | .    | .   | .   | .   | .   | .    | .   |

TOTAL NUMBER OF OBSERVATIONS

DATA WAS CLEANED

4

SKY COVER

STATION NAME \_\_\_\_\_ PERIOD \_\_\_\_\_ MONTH \_\_\_\_\_

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

4

SKY COVER

STATION NAME PERIOD MONTH

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

4

## SKY COVER

STATION NAME PERIOD MONTH

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

4

## SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

4

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

4

SKY COVER

STATION STATION NAME PER OC MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

4

## SKY COVER

STATION NAME PERIOD MONTH

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

SKY COVER

4

STATION STATION NAME PER CC BENTH.

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

**4 SKY COVER**

PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>LST | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |   |   |   |   |   |   |   | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|--------|--------------|---|---|---|---|---|---|---|---|---|---|--------------------------------|-------------------------|
|        |              | 0   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                                |                         |
| JAN    | 00           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 01           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 02           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 03           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 04           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 05           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 06           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 07           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 08           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 09           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 10           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 11           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 12           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 13           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 14           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 15           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 16           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 17           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 18           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 19           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 20           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 21           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 22           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 23           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 24           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 25           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 26           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 27           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 28           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 29           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 30           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| JAN    | 31           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |
| TOTALS |              | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                              | 0                       |

4

SKY COVER

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

## SKY COVER

4

STATION

STATION NAME

PERIOD

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH | HOURS<br>LST | PERCENTAGE FREQUENCY OF TENTH<br>PARTIAL SKY COVER |   |   |   |   |   |   |   |   | MEAN<br>PERCENTAGE<br>SKY COVER<br>Day | MEAN<br>PERCENTAGE<br>SKY COVER<br>Night |
|-------|--------------|--|---|---|---|---|---|---|---|---|--|--|
|       |              | 0  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |  |
| JAN   | 0            | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                      | 0  |
| JAN   | 1            | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                      | 0  |
| JAN   | 2            | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                      | 0  |
| JAN   | 3            | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                      | 0  |
| JAN   | 4            | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                      | 0  |
| JAN   | 5            | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                      | 0  |
| JAN   | 6            | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                      | 0  |
| JAN   | 7            | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                      | 0  |
| JAN   | 8            | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                      | 0  |
| JAN   | TOTALS       | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                      | 0  |

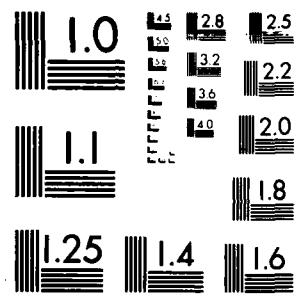
AD A150 345      SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
ROTA SPAIN(U) NAVAL OCEANOGRAPHY COMMAND DETACHMENT  
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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS 1964 A

**SKY COVER**

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ PERIOD \_\_\_\_\_ MONTH \_\_\_\_\_

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |   |   |   |   |   |   |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|---|---|---|---|---|---|---|---|---|------|--------------------------------|-------------------------|
|        |                   | 0   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9    |                                |                         |
|        | 0                 |   |   |   |   |   |   |   |   |   | 21.6 | 1.7                            | 4                       |
|        | 1                 |   |   |   |   |   |   |   |   |   | 1.0  | 1.7                            | 5                       |
|        | 2                 |   |   |   |   |   |   |   |   |   | 7.0  | 0.7                            | 3                       |
|        | 3                 |   |   |   |   |   |   |   |   |   | 1.0  | 1.0                            | 2                       |
|        | 4                 |   |   |   |   |   |   |   |   |   | 1.0  | 2.7                            | 3                       |
|        | 5                 |   |   |   |   |   |   |   |   |   | 0.0  | 2.0                            | 2                       |
|        | 6                 |   |   |   |   |   |   |   |   |   | 0.0  | 0.0                            | 0                       |
|        | 7                 |   |   |   |   |   |   |   |   |   | 0.0  | 0.0                            | 0                       |
|        | 8                 |   |   |   |   |   |   |   |   |   | 0.0  | 0.0                            | 0                       |
|        | 9                 |   |   |   |   |   |   |   |   |   | 0.0  | 0.0                            | 0                       |
|        | 10                |   |   |   |   |   |   |   |   |   | 0.0  | 0.0                            | 0                       |
| TOTALS |                   | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.6  | 2.0                            | 10                      |

## SKY COVER

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ PERIOD \_\_\_\_\_ MONTH \_\_\_\_\_

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |   |   |   |   |   |   |   |    | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|---|---|---|---|---|---|---|---|---|---|----|--------------------------------|-------------------------|
|        |                   | 0   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |                                |                         |
| 1      | 1                 | 1   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1.3                            | 2                       |
| 2      | 1                 | 1   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1.3                            | 2                       |
| 3      | 1                 | 1   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1.3                            | 2                       |
| 4      | 1                 | 1   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1.3                            | 2                       |
| 5      | 1                 | 1   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1.3                            | 2                       |
| 6      | 1                 | 1   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1.3                            | 2                       |
| 7      | 1                 | 1   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1.3                            | 2                       |
| 8      | 1                 | 1   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1.3                            | 2                       |
| 9      | 1                 | 1   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1.3                            | 2                       |
| 10     | 1                 | 1   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1.3                            | 2                       |
| 11     | 1                 | 1   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1.3                            | 2                       |
| 12     | 1                 | 1   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1.3                            | 2                       |
| TOTALS |                   | 1   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1.3                            | 24                      |

NODD, Federal Building  
Asheville, N. C.

## PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperature
  - b. Daily minimum temperature
  - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:
  - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\Sigma X$ ), means ( $\bar{X}$ ), and standard deviations ( $s_x$ ). The number of observations used in the computations for each element is also shown.

c. At the lower right of the form are given the mean number of hours occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

- a. Dry-bulb temperature
- b. Wet-bulb temperature
- c. Dew-point temperature

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.

b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

6. Percentage frequency of occurrence of dry-bulb temperature versus wind direction - This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in four degree increments and horizontally by eight wind directions (plus calm).

## 4

## DAILY TEMPERATURES

STATION

STATION NAME

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

| TEMP (°F)  | JAN. | FEB. | MAR. | APR. | MAY  | JUN.  | JUL. | AUG.  | SEP.  | OCT.  | NOV. | DEC.  | ANNUAL |
|------------|------|------|------|------|------|-------|------|-------|-------|-------|------|-------|--------|
| 1          |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 2          |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 3          |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 4          |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 5          |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 6          |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 7          |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 8          |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 9          |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 10         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 11         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 12         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 13         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 14         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 15         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 16         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 17         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 18         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 19         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 20         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 21         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 22         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 23         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 24         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 25         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 26         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 27         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 28         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 29         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| 30         |      |      |      |      |      |       |      |       |       |       |      |       |        |
| MEAN       | 4.1  | 6.1  | 9.3  | 15.9 | 20.3 | 26.6  | 30.5 | 33.4  | 37.7  | 41.9  | 47.0 | 51.6  |        |
| S.D.       | 6.2  | 4.1  | 5.3  | 5.9  | 7.3  | 6.955 | 6.97 | 6.707 | 6.578 | 6.727 | 6.67 | 6.713 | 6.67   |
| TOTAL OBS. | 5    | 6    | 7    | 16   | 21   | 24    | 25   | 24    | 22    | 24    | 24   | 22    | 22     |

NAVWEASERVCOM

## DAILY TEMPERATURES

| STATION    | STATION NAME | YEARS |      |      |     |      |      |      |      |      |      |      |        |
|------------|--------------|-------|------|------|-----|------|------|------|------|------|------|------|--------|
| TEMP (°F)  | JAN.         | FEB.  | MAR. | APR. | MAY | JUN. | JUL. | AUG. | SEP. | OCT  | NOV. | DEC  | ANNUAL |
| 4          |              |       |      |      |     |      |      |      |      |      |      |      |        |
| 5          |              |       |      |      |     |      |      |      |      |      |      |      |        |
| 6          |              |       |      |      |     |      |      |      |      |      |      |      |        |
| 7          |              |       |      |      |     |      |      |      |      |      |      |      |        |
| 8          |              |       |      |      |     |      |      |      |      |      |      |      |        |
| 9          |              |       |      |      |     |      |      |      |      |      |      |      |        |
| 10         |              |       |      |      |     |      |      |      |      |      |      |      |        |
| MEAN       | 44           | 47    | 49   | 51   | 57  | 61.6 | 65.6 | 66.7 | 58.2 | 50.7 | 40.6 | 47.0 | 53.0   |
| S.D.       | 1.0          | 1.1   | 1.2  | 1.3  | 1.4 | 1.6  | 1.7  | 1.8  | 1.6  | 1.4  | 1.1  | 1.0  | 1.1    |
| TOTAL OBS. | 678          | 714   | 732  | 764  | 780 | 784  | 784  | 783  | 727  | 775  | 740  | 778  | 721    |

NAVWEASERV.COM

4

## DAILY TEMPERATURES

STATION

**STATION NAME**

YEARS

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)**

[NAVWEASERV.COM](http://NAVWEASERV.COM)

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

**4**

|         |              |       |       |
|---------|--------------|-------|-------|
| STATION | STATION NAME | YEARS | MONTH |
|---------|--------------|-------|-------|

| DAY     | MEAN TEMP |      | MAXIMUM TEMP |      |      |         |           |      | MINIMUM TEMP |    |      |           |      |     |
|---------|-----------|------|--------------|------|------|---------|-----------|------|--------------|----|------|-----------|------|-----|
|         | AVERAGE   |      | AVERAGE      |      |      | EXTREME |           |      | AVERAGE      |    |      | EXTREME   |      |     |
|         | °F        | °C   | °F           | °C   | °F   | °C      | DATE      | °F   | °C           | °F | °C   | DATE      | °F   | °C  |
| 1       | 51.0      | 11.4 | 51.6         | 10.6 | 51.6 | 10.6    | 51.6 1982 | 44.7 | 7.0          | 53 | 6    | 51.7 1971 | 44.7 | 7.0 |
| 2       | 51.0      | 11.4 | 51.6         | 10.6 | 51.6 | 10.6    | 51.6 1978 | 44.4 | 7.4          | 54 | -1.0 | 51.7 1971 | 44.4 | 7.4 |
| 3       | 51.0      | 11.4 | 52.1         | 11.3 | 51.3 | 10.3    | 51.3 1982 | 46.4 | 7.0          | 55 | 7.1  | 52.1 1971 | 46.4 | 7.0 |
| 4       | 51.0      | 11.4 | 51.6         | 10.6 | 51.6 | 10.6    | 51.6 1982 | 44.7 | 6.7          | 55 | 6.6  | 51.6 1971 | 44.7 | 6.7 |
| 5       | 51.0      | 11.4 | 51.6         | 10.6 | 51.6 | 10.6    | 51.6 1983 | 44.2 | 7.0          | 55 | 6.6  | 51.6 1971 | 44.2 | 7.0 |
| 6       | 51.0      | 11.4 | 51.7         | 11.4 | 51.3 | 10.3    | 51.3 1982 | 44.7 | 7.0          | 55 | 6.6  | 51.7 1971 | 44.7 | 7.0 |
| 7       | 51.0      | 11.4 | 51.2         | 10.4 | 51.3 | 10.3    | 51.3 1979 | 47.3 | 6.1          | 55 | 6.6  | 51.7 1971 | 47.3 | 6.1 |
| 8       | 51.0      | 11.4 | 51.3         | 10.3 | 51.3 | 10.3    | 51.3 1982 | 44.1 | 5.7          | 55 | 6.6  | 51.7 1971 | 44.1 | 5.7 |
| 9       | 51.0      | 11.4 | 51.5         | 10.6 | 51.6 | 10.6    | 51.6 1982 | 46.0 | 7.0          | 55 | 6.6  | 51.7 1971 | 46.0 | 7.0 |
| 10      | 51.0      | 11.4 | 51.2         | 10.4 | 51.2 | 10.4    | 51.2 1982 | 47.0 | 7.0          | 55 | 6.6  | 51.7 1971 | 47.0 | 7.0 |
| 11      | 51.0      | 11.4 | 51.9         | 10.7 | 51.6 | 10.6    | 51.6 1974 | 46.7 | 7.0          | 55 | 6.6  | 51.7 1971 | 46.7 | 7.0 |
| 12      | 51.0      | 11.4 | 51.3         | 10.4 | 51.4 | 10.4    | 51.4 1976 | 44.6 | 7.0          | 55 | -1.1 | 51.7 1971 | 44.6 | 7.0 |
| 13      | 51.0      | 11.4 | 51.2         | 10.3 | 51.9 | 10.3    | 51.9 1976 | 44.8 | 6.3          | 55 | -1.1 | 51.7 1971 | 44.8 | 6.3 |
| 14      | 51.0      | 11.4 | 51.1         | 10.1 | 51.6 | 10.6    | 51.6 1979 | 45.3 | 7.4          | 55 | -1.1 | 51.7 1971 | 45.3 | 7.4 |
| 15      | 51.0      | 11.4 | 51.0         | 10.1 | 51.2 | 10.2    | 51.2 1983 | 45.1 | 7.7          | 55 | -1.1 | 51.7 1971 | 45.1 | 7.7 |
| 16      | 51.0      | 11.4 | 51.2         | 10.3 | 51.3 | 10.3    | 51.3 1983 | 45.1 | 7.7          | 55 | -1.1 | 51.7 1971 | 45.1 | 7.7 |
| 17      | 51.0      | 11.4 | 51.2         | 10.4 | 51.3 | 10.3    | 51.3 1983 | 46.4 | 8.0          | 55 | -1.1 | 51.7 1971 | 46.4 | 8.0 |
| 18      | 51.0      | 11.4 | 51.4         | 10.6 | 51.4 | 10.6    | 51.4 1983 | 47.0 | 8.0          | 55 | -1.1 | 51.7 1971 | 47.0 | 8.0 |
| 19      | 51.0      | 11.4 | 51.6         | 10.6 | 51.6 | 10.6    | 51.6 1970 | 47.7 | 8.7          | 55 | -1.1 | 51.7 1971 | 47.7 | 8.7 |
| 20      | 51.0      | 11.4 | 52.0         | 10.7 | 51.2 | 10.2    | 51.2 1970 | 47.6 | 8.7          | 55 | -1.1 | 51.7 1971 | 47.6 | 8.7 |
| 21      | 51.0      | 11.4 | 51.7         | 10.7 | 51.5 | 10.5    | 51.5 1981 | 47.6 | 8.6          | 55 | -1.1 | 51.7 1971 | 47.6 | 8.6 |
| 22      | 51.0      | 11.4 | 51.2         | 10.2 | 51.2 | 10.2    | 51.2 1981 | 46.1 | 7.5          | 55 | -1.1 | 51.7 1971 | 46.1 | 7.5 |
| 23      | 51.0      | 11.4 | 51.6         | 10.6 | 51.3 | 10.3    | 51.3 1983 | 45.6 | 7.3          | 55 | -1.1 | 51.7 1971 | 45.6 | 7.3 |
| 24      | 51.0      | 11.4 | 51.2         | 10.1 | 51.5 | 10.5    | 51.5 1959 | 45.3 | 7.7          | 55 | -1.1 | 51.7 1971 | 45.3 | 7.7 |
| 25      | 51.0      | 11.4 | 51.2         | 10.1 | 51.6 | 10.5    | 51.6 1981 | 46.7 | 8.0          | 55 | -1.1 | 51.7 1971 | 46.7 | 8.0 |
| 26      | 51.0      | 11.4 | 51.2         | 10.2 | 51.2 | 10.2    | 51.2 1983 | 45.6 | 7.5          | 55 | -1.1 | 51.7 1971 | 45.6 | 7.5 |
| 27      | 51.0      | 11.4 | 51.1         | 10.0 | 51.7 | 10.7    | 51.7 1983 | 45.5 | 7.6          | 55 | -1.1 | 51.7 1971 | 45.5 | 7.6 |
| 28      | 51.0      | 11.4 | 51.7         | 11.0 | 51.2 | 10.2    | 51.2 1983 | 45.1 | 7.3          | 55 | -1.1 | 51.7 1971 | 45.1 | 7.3 |
| 29      | 51.0      | 11.4 | 51.7         | 10.2 | 51.7 | 10.2    | 51.7 1978 | 45.7 | 7.6          | 55 | -1.1 | 51.7 1971 | 45.7 | 7.6 |
| 30      | 51.0      | 11.4 | 51.7         | 10.7 | 51.3 | 10.3    | 51.3 1982 | 45.5 | 7.5          | 55 | -1.1 | 51.7 1971 | 45.5 | 7.5 |
| 31      | 51.0      | 11.4 | 51.9         | 11.7 | 51.3 | 10.3    | 51.3 1986 | 45.6 | 7.6          | 55 | -1.1 | 51.3 1971 | 45.6 | 7.6 |
| Monthly | 51.0      | 11.4 | 51.7         | 10.7 | 51.3 | 10.3    | 51.3 1988 | 45.7 | 7.6          | 55 | -1.1 | 51.7 1971 | 45.7 | 7.6 |

\* ALSO ON EARLIER YEARS

DIRNAVOCCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

4

| STATION | STATION NAME | 1970-1983 | YEARS | MONTH |
|---------|--------------|-----------|-------|-------|
|---------|--------------|-----------|-------|-------|

| DAY | MEAN TEMP |      | MAXIMUM TEMP |      |         |      |         |      | MINIMUM TEMP |     |         |      |      |
|-----|-----------|------|--------------|------|---------|------|---------|------|--------------|-----|---------|------|------|
|     | AVERAGE   |      | AVERAGE      |      | EXTREME |      | AVERAGE |      | EXTREME      |     | AVERAGE |      |      |
|     | °F        | °C   | °F           | °C   | °F      | °C   | DATE    | °F   | °C           | °F  | °C      | DATE |      |
| 1   | 44        | 12.2 | 41.3         | 16.0 | 72      | 21.1 | 1975    | 46.2 | 7.0          | 71  | 3.3     | 1974 |      |
| 2   | 44        | 12.4 | 41.7         | 16.0 | 71      | 21.7 | 1964    | 47.1 | 8.4          | 77  | 2.8     | 1971 |      |
| 3   | 44        | 12.3 | 42.4         | 16.0 | 71      | 21.1 | 1963    | 45.1 | 7.7          | 77  | 1.7     | 1974 |      |
| 4   | 44        | 12.0 | 42.7         | 17.1 | 71      | 21.1 | 1962    | 46.3 | 7.0          | 74  | 1.1     | 1973 |      |
| 5   | 44        | 12.2 | 42.4         | 16.4 | 71      | 21.1 | 1963    | 45.3 | 7.4          | 71  | 1.7     | 1973 |      |
| 6   | 44        | 12.7 | 42.4         | 16.0 | 73      | 22.0 | 1981    | 47.5 | 8.4          | 77  | 3.3     | 1973 |      |
| 7   | 44        | 12.0 | 42.0         | 17.2 | 72      | 22.0 | 1981    | 47.1 | 8.3          | 77  | 3.3     | 1973 |      |
| 8   | 44        | 12.2 | 42.5         | 16.3 | 71      | 22.0 | 1962    | 45.7 | 7.4          | 76  | 2.2     | 1974 |      |
| 9   | 44        | 12.3 | 42.0         | 16.7 | 71      | 21.7 | 1961    | 46.4 | 8.0          | 73  | 0.6     | 1974 |      |
| 10  | 44        | 12.3 | 42.0         | 16.1 | 71      | 21.1 | 1961    | 47.2 | 7.4          | 76  | 1.1     | 1973 |      |
| 11  | 44        | 12.1 | 41.5         | 16.4 | 71      | 21.1 | 1961    | 46.2 | 7.0          | 72  | 0.6     | 1973 |      |
| 12  | 44        | 11.8 | 40.6         | 15.9 | 71      | 21.1 | 1982    | 45.0 | 7.7          | 77  | 2.0     | 1974 |      |
| 13  | 44        | 11.7 | 40.3         | 15.7 | 67      | 20.0 | 1971    | 45.1 | 7.7          | 70  | 1.7     | 1974 |      |
| 14  | 44        | 12.1 | 41.5         | 15.8 | 65      | 19.7 | 1972    | 46.1 | 8.3          | 77  | 2.3     | 1974 |      |
| 15  | 44        | 12.2 | 41.7         | 15.9 | 65      | 19.3 | 1975    | 47.2 | 8.4          | 77  | 1.7     |      |      |
| 16  | 44        | 12.1 | 41.7         | 16.0 | 63      | 21.0 | 1981    | 47.2 | 8.4          | 76  | 2.0     | 1974 |      |
| 17  | 44        | 12.2 | 41.7         | 16.6 | 72      | 22.0 | 1981    | 45.6 | 7.7          | 77  | 1.7     | 1973 |      |
| 18  | 44        | 13.1 | 43.1         | 17.3 | 72      | 22.0 | 1978    | 47.2 | 8.6          | 77  | 1.8     | 1974 |      |
| 19  | 44        | 13.1 | 42.5         | 16.0 | 70      | 21.1 | 1983    | 48.7 | 9.0          | 71  | 1.7     | 1974 |      |
| 20  | 44        | 12.4 | 43.4         | 17.4 | 72      | 22.0 | 1984    | 46.6 | 8.1          | 77  | 0.6     | 1974 |      |
| 21  | 44        | 13.2 | 43.2         | 17.7 | 74      | 23.0 | 1973    | 47.4 | 8.4          | 76  | 2.0     | 1974 |      |
| 22  | 44        | 13.4 | 44.2         | 17.7 | 74      | 23.3 | 1977    | 48.1 | 9.1          | 77  | 3.0     | 1974 |      |
| 23  | 44        | 13.3 | 44.1         | 17.8 | 71      | 21.7 | 1976    | 47.7 | 8.7          | 77  | 4.4     | 1976 |      |
| 24  | 44        | 13.0 | 44.2         | 17.9 | 71      | 21.7 | 1971    | 46.7 | 8.0          | 77  | 2.2     | 1974 |      |
| 25  | 44        | 13.1 | 43.0         | 17.0 | 71      | 22.0 | 1983    | 49.2 | 9.1          | 77  | 1.1     | 1974 |      |
| 26  | 44        | 13.4 | 43.6         | 17.7 | 77      | 25.0 | 1971    | 47.7 | 9.3          | 77  | 2.3     | 1974 |      |
| 27  | 44        | 14.1 | 44.6         | 16.1 | 77      | 25.0 | 1960    | 49.0 | 9.9          | 77  | 2.8     | 1974 |      |
| 28  | 44        | 14.1 | 45.6         | 16.7 | 77      | 25.0 | 1960    | 47.9 | 9.4          | 77  | 1.3     | 1974 |      |
| 29  | 44        | 13.2 | 43.7         | 17.2 | 66      | 18.0 | 1976    | 48.5 | 9.7          | 43  | 6.1     | 1977 |      |
| 30  |           |      |              |      |         |      |         |      |              |     |         |      |      |
| 31  | Monthly   | 44   | 12.7         | 42.6 | 17.0    | 77   | 47.1    | 1971 | 47.1         | 8.4 | 77      | 0.0  | 1983 |

\*ALSO ON EARLIER YEARS

DIRNAVOCANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

4

| STATION | STATION NAME | YEARS | MONTH |
|---------|--------------|-------|-------|
|---------|--------------|-------|-------|

| DAY     | MEAN TEMP |      | MAXIMUM TEMP |      |         |      |         |      | MINIMUM TEMP |    |       |      |
|---------|-----------|------|--------------|------|---------|------|---------|------|--------------|----|-------|------|
|         | AVERAGE   |      | AVERAGE      |      | EXTREME |      | AVERAGE |      | EXTREME      |    |       |      |
|         | °F        | °C   | °F           | °C   | °F      | °C   | DATE    | °F   | °C           | °F | °C    | DATE |
| 1       | 56.0      | 13.0 | 56.1         | 13.4 | 71      | 21.7 | 1953    | 46.7 | 8.1          | 32 | -14.7 | 1-14 |
| 2       | 57.0      | 13.9 | 56.6         | 13.7 | 81      | 27.0 | 1953    | 44.6 | 6.4          | 32 | -14.9 | 1-17 |
| 3       | 57.0      | 13.9 | 56.8         | 13.7 | 77      | 25.0 | 1953    | 45.1 | 7.2          | 32 | -13.3 | 1-17 |
| 4       | 57.0      | 13.9 | 56.4         | 13.3 | 77      | 25.0 | 1953    | 45.0 | 7.2          | 32 | -13.4 | 1-17 |
| 5       | 57.0      | 13.9 | 56.2         | 13.2 | 73      | 23.0 | 1953    | 47.0 | 8.3          | 32 | -13.7 | 1-17 |
| 6       | 57.0      | 13.9 | 56.2         | 13.2 | 73      | 21.1 | 1953    | 47.4 | 8.3          | 32 | -13.7 | 1-17 |
| 7       | 57.0      | 13.9 | 56.2         | 13.2 | 73      | 21.1 | 1951    | 47.4 | 8.3          | 32 | -13.7 | 1-17 |
| 8       | 57.0      | 13.9 | 56.1         | 13.2 | 73      | 23.0 | 1977    | 47.0 | 8.3          | 32 | -13.8 | 1-18 |
| 9       | 57.0      | 13.9 | 55.3         | 12.8 | 82      | 27.0 | 1951    | 47.8 | 8.8          | 32 | -13.8 | 1-18 |
| 10      | 57.0      | 13.9 | 55.2         | 12.8 | 81      | 27.0 | 1953    | 47.8 | 8.8          | 32 | -13.8 | 1-18 |
| 11      | 57.0      | 13.9 | 55.2         | 12.8 | 82      | 27.0 | 1951    | 47.8 | 8.8          | 32 | -13.8 | 1-18 |
| 12      | 57.0      | 13.9 | 55.4         | 12.9 | 83      | 27.0 | 1953    | 47.8 | 8.8          | 32 | -13.8 | 1-18 |
| 13      | 57.0      | 13.9 | 57.6         | 15.7 | 73      | 26.1 | 1957    | 49.0 | 9.4          | 32 | -10.6 | 1-19 |
| 14      | 57.0      | 13.9 | 56.0         | 13.3 | 73      | 25.1 | 1953    | 46.5 | 7.0          | 32 | -13.6 | 1-19 |
| 15      | 57.0      | 13.9 | 57.8         | 15.3 | 74      | 23.0 | 1977    | 48.6 | 9.0          | 32 | -10.4 | 1-19 |
| 16      | 57.0      | 13.9 | 56.7         | 13.3 | 77      | 24.0 | 1953    | 47.6 | 8.7          | 32 | -13.7 | 1-19 |
| 17      | 57.0      | 13.9 | 55.1         | 12.8 | 73      | 26.1 | 1953    | 47.7 | 8.8          | 32 | -13.7 | 1-19 |
| 18      | 57.0      | 13.9 | 56.4         | 13.1 | 73      | 27.0 | 1953    | 48.3 | 9.0          | 32 | -13.7 | 1-19 |
| 19      | 57.0      | 13.9 | 56.4         | 13.1 | 76      | 24.6 | 1956    | 49.0 | 9.4          | 32 | -10.4 | 1-19 |
| 20      | 57.0      | 13.9 | 55.9         | 13.2 | 73      | 26.1 | 1953    | 51.0 | 10.7         | 51 | -8.0  | 1-19 |
| 21      | 57.0      | 13.9 | 55.7         | 13.2 | 81      | 27.0 | 1952    | 52.0 | 11.1         | 51 | -8.0  | 1-19 |
| 22      | 57.0      | 13.9 | 56.6         | 13.6 | 77      | 27.0 | 1952    | 49.0 | 9.0          | 51 | -8.0  | 1-19 |
| 23      | 57.0      | 13.9 | 56.3         | 13.5 | 73      | 26.0 | 1952    | 47.5 | 8.7          | 51 | -8.0  | 1-19 |
| 24      | 57.0      | 13.9 | 56.1         | 13.3 | 77      | 25.0 | 1951    | 46.6 | 9.2          | 51 | -8.0  | 1-19 |
| 25      | 57.0      | 13.9 | 56.7         | 13.3 | 77      | 25.0 | 1978    | 48.7 | 9.1          | 51 | -8.0  | 1-19 |
| 26      | 57.0      | 13.9 | 56.2         | 13.2 | 77      | 25.0 | 1973    | 48.7 | 9.1          | 51 | -8.0  | 1-19 |
| 27      | 57.0      | 13.9 | 57.7         | 15.9 | 71      | 27.0 | 1973    | 49.1 | 9.5          | 51 | -8.6  | 1-19 |
| 28      | 57.0      | 13.9 | 56.6         | 13.3 | 74      | 23.0 | 1972    | 52.0 | 11.1         | 51 | -8.7  | 1-19 |
| 29      | 57.0      | 13.9 | 54.8         | 12.7 | 73      | 22.0 | 1951    | 50.6 | 10.3         | 51 | -8.6  | 1-19 |
| 30      | 57.0      | 13.9 | 55.9         | 13.3 | 81      | 27.0 | 1951    | 49.6 | 9.0          | 51 | -8.2  | 1-19 |
| 31      | 57.0      | 13.9 | 56.1         | 13.3 | 71      | 27.0 | 1951    | 49.5 | 9.2          | 51 | -8.3  | 1-19 |
| Monthly | 57.0      | 13.9 | 55.5         | 13.0 | 82      | 27.0 | 1952    | 49.7 | 9.3          | 51 | -8.1  | 1-19 |

\*ALSO ON EARLIER YEARS

DIRNAVOCANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

| STATION |           | STATION NAME |              | YEARS |         | MONTH |              |      |         |      |         |      |
|---------|-----------|--------------|--------------|-------|---------|-------|--------------|------|---------|------|---------|------|
| DAY     | MEAN TEMP |              | MAXIMUM TEMP |       |         |       | MINIMUM TEMP |      |         |      |         |      |
|         | AVERAGE   | °F           | AVERAGE      | °C    | EXTREME | °F    | C            | DATE | AVERAGE | °F   | EXTREME | °C   |
| 1       | 7.0       | 41.4         | 57.0         | 13.9  | 77      | 80    | 4.4          | 1-1  | 41.4    | 41.4 | 33      | 1-1  |
| 2       | 8.0       | 44.6         | 60.8         | 15.6  | 79      | 82    | 4.0          | 1-2  | 44.6    | 44.6 | 34      | 1-2  |
| 3       | 8.0       | 44.6         | 60.7         | 15.6  | 81      | 82    | 4.0          | 1-3  | 44.6    | 44.6 | 34      | 1-3  |
| 4       | 8.0       | 44.6         | 60.6         | 15.6  | 81      | 82    | 4.0          | 1-4  | 44.6    | 44.6 | 34      | 1-4  |
| 5       | 8.0       | 44.6         | 60.5         | 15.6  | 82      | 82    | 4.0          | 1-5  | 44.6    | 44.6 | 34      | 1-5  |
| 6       | 8.0       | 44.6         | 60.5         | 15.6  | 82      | 82    | 4.0          | 1-6  | 44.6    | 44.6 | 34      | 1-6  |
| 7       | 8.0       | 44.6         | 60.5         | 15.6  | 82      | 82    | 4.0          | 1-7  | 44.6    | 44.6 | 34      | 1-7  |
| 8       | 8.0       | 44.6         | 60.5         | 15.6  | 82      | 82    | 4.0          | 1-8  | 44.6    | 44.6 | 34      | 1-8  |
| 9       | 8.0       | 44.6         | 60.4         | 15.6  | 82      | 82    | 4.0          | 1-9  | 44.6    | 44.6 | 34      | 1-9  |
| 10      | 8.0       | 44.6         | 60.4         | 15.6  | 82      | 82    | 4.0          | 1-10 | 44.6    | 44.6 | 34      | 1-10 |
| 11      | 8.0       | 44.6         | 60.3         | 15.6  | 82      | 82    | 4.0          | 1-11 | 44.6    | 44.6 | 34      | 1-11 |
| 12      | 8.0       | 44.6         | 60.3         | 15.6  | 82      | 82    | 4.0          | 1-12 | 44.6    | 44.6 | 34      | 1-12 |
| 13      | 8.0       | 44.6         | 60.2         | 15.6  | 82      | 82    | 4.0          | 1-13 | 44.6    | 44.6 | 34      | 1-13 |
| 14      | 8.0       | 44.6         | 60.2         | 15.6  | 82      | 82    | 4.0          | 1-14 | 44.6    | 44.6 | 34      | 1-14 |
| 15      | 8.0       | 44.6         | 60.1         | 15.6  | 82      | 82    | 4.0          | 1-15 | 44.6    | 44.6 | 34      | 1-15 |
| 16      | 8.0       | 44.6         | 60.1         | 15.6  | 82      | 82    | 4.0          | 1-16 | 44.6    | 44.6 | 34      | 1-16 |
| 17      | 8.0       | 44.6         | 60.0         | 15.6  | 82      | 82    | 4.0          | 1-17 | 44.6    | 44.6 | 34      | 1-17 |
| 18      | 8.0       | 44.6         | 60.0         | 15.6  | 82      | 82    | 4.0          | 1-18 | 44.6    | 44.6 | 34      | 1-18 |
| 19      | 8.0       | 44.6         | 60.0         | 15.6  | 82      | 82    | 4.0          | 1-19 | 44.6    | 44.6 | 34      | 1-19 |
| 20      | 8.0       | 44.6         | 60.0         | 15.6  | 82      | 82    | 4.0          | 1-20 | 44.6    | 44.6 | 34      | 1-20 |
| 21      | 8.0       | 44.6         | 60.0         | 15.6  | 82      | 82    | 4.0          | 1-21 | 44.6    | 44.6 | 34      | 1-21 |
| 22      | 8.0       | 44.6         | 60.0         | 15.6  | 82      | 82    | 4.0          | 1-22 | 44.6    | 44.6 | 34      | 1-22 |
| 23      | 8.0       | 44.6         | 60.0         | 15.6  | 82      | 82    | 4.0          | 1-23 | 44.6    | 44.6 | 34      | 1-23 |
| 24      | 8.0       | 44.6         | 60.0         | 15.6  | 82      | 82    | 4.0          | 1-24 | 44.6    | 44.6 | 34      | 1-24 |
| 25      | 8.0       | 44.6         | 60.0         | 15.6  | 82      | 82    | 4.0          | 1-25 | 44.6    | 44.6 | 34      | 1-25 |
| 26      | 8.0       | 44.6         | 60.0         | 15.6  | 82      | 82    | 4.0          | 1-26 | 44.6    | 44.6 | 34      | 1-26 |
| 27      | 8.0       | 44.6         | 60.0         | 15.6  | 82      | 82    | 4.0          | 1-27 | 44.6    | 44.6 | 34      | 1-27 |
| 28      | 8.0       | 44.6         | 60.0         | 15.6  | 82      | 82    | 4.0          | 1-28 | 44.6    | 44.6 | 34      | 1-28 |
| 29      | 8.0       | 44.6         | 60.0         | 15.6  | 82      | 82    | 4.0          | 1-29 | 44.6    | 44.6 | 34      | 1-29 |
| 30      | 8.0       | 44.6         | 60.0         | 15.6  | 82      | 82    | 4.0          | 1-30 | 44.6    | 44.6 | 34      | 1-30 |
| 31      |           |              |              |       |         |       |              |      |         |      |         |      |
| Monthly |           | 15.6         | 60.0         | 15.6  | 82      | 82    | 4.0          | 1-1  | 44.6    | 44.6 | 34      | 1-1  |

\*ALSO ON EARLIER YEARS

DIRNAVOCANMET-SMOS

4  
NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

| STATION | STATION NAME | YEARS     |         |              |         |       |         |              |         |         |  |
|---------|--------------|-----------|---------|--------------|---------|-------|---------|--------------|---------|---------|--|
|         |              | MEAN TEMP |         | MAXIMUM TEMP |         |       |         | MINIMUM TEMP |         |         |  |
| DAY     | AVERAGE      | AVERAGE   | EXTREME | AVERAGE      | EXTREME | DATE  | AVERAGE | EXTREME      | AVERAGE | EXTREME |  |
| 1       | 17.0         | 7.0       | 21.0    | 7.0          | 21.0    | 15-5  | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 2       | 16.0         | 7.0       | 21.0    | 7.0          | 21.0    | 15-6  | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 3       | 16.0         | 7.0       | 21.0    | 7.0          | 21.0    | 15-7  | 17.0    | 12.0         | 17.0    | 12.0    |  |
| 4       | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-8  | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 5       | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-9  | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 6       | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-10 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 7       | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-11 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 8       | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-12 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 9       | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-13 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 10      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-14 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 11      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-15 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 12      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-16 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 13      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-17 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 14      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-18 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 15      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-19 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 16      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-20 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 17      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-21 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 18      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-22 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 19      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-23 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 20      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-24 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 21      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-25 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 22      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-26 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 23      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-27 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 24      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-28 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 25      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-29 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 26      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-30 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 27      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-31 | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 28      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-1  | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 29      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-2  | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 30      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-3  | 17.0    | 11.0         | 17.0    | 11.0    |  |
| 31      | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-4  | 17.0    | 11.0         | 17.0    | 11.0    |  |
| Monthly | 17.0         | 7.0       | 22.0    | 7.0          | 22.0    | 15-5  | 17.0    | 11.0         | 17.0    | 11.0    |  |

\*ALSO ON EARLIER YEARS

DIRNAVOCANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

| STATION   |   |         |      | STATION NAME |      |      |        | YEARS        |      |         |      | MONTH  |      |     |      |
|-----------|---|---------|------|--------------|------|------|--------|--------------|------|---------|------|--------|------|-----|------|
| MEAN TEMP |   |         |      | MAXIMUM TEMP |      |      |        | MINIMUM TEMP |      |         |      |        |      |     |      |
| AVERAGE   |   | AVERAGE |      | EXTREME      |      |      |        | AVERAGE      |      | EXTREME |      |        |      |     |      |
| DAY       | F | C       | F    | C            | F    | C    | DATE   | F            | C    | F       | C    | DATE   | F    | C   | DATE |
| 1         | - | -       | 71.4 | 21.8         | 71   | 21.1 | 1-17-6 | -            | -    | 11.1    | 5.6  | 1-17-6 | -    | -   | -    |
| 2         | - | -       | 70.5 | 21.4         | 74   | 23   | 1-18-6 | -            | -    | 14.6    | 7.5  | 1-18-6 | -    | -   | -    |
| 3         | - | -       | 71.7 | 21.9         | 74   | 23   | 1-19-6 | -            | -    | 11.3    | 5.2  | 1-19-6 | -    | -   | -    |
| 4         | - | -       | 71.2 | 21.7         | 74.1 | 23.9 | 1-20-6 | -            | -    | 11.6    | 5.3  | 1-20-6 | -    | -   | -    |
| 5         | - | -       | 72.4 | 22.9         | 75   | 24.4 | 1-21-6 | -            | -    | 11.2    | 5.6  | 1-21-6 | -    | -   | -    |
| 6         | - | -       | 72.3 | 22.9         | 74   | 24   | 1-22-6 | -            | -    | 11.7    | 5.7  | 1-22-6 | -    | -   | -    |
| 7         | - | -       | 72.1 | 22.8         | 74   | 24   | 1-23-6 | -            | -    | 11.1    | 5.1  | 1-23-6 | -    | -   | -    |
| 8         | - | -       | 72.4 | 22.9         | 75   | 24   | 1-24-6 | -            | -    | 11.8    | 5.2  | 1-24-6 | -    | -   | -    |
| 9         | - | -       | 72.7 | 23.1         | 75   | 24   | 1-25-6 | -            | -    | 11.6    | 5.3  | 1-25-6 | -    | -   | -    |
| 10        | - | -       | 72.4 | 23           | 75   | 24   | 1-26-6 | -            | -    | 11.3    | 5.6  | 1-26-6 | -    | -   | -    |
| 11        | - | -       | 71.1 | 22.2         | 75   | 24   | 1-27-6 | -            | -    | 11.2    | 5.5  | 1-27-6 | -    | -   | -    |
| 12        | - | -       | 71.3 | 22.3         | 74.9 | 23.7 | 1-28-6 | -            | -    | 11.6    | 5.3  | 1-28-6 | -    | -   | -    |
| 13        | - | -       | 71.3 | 22.3         | 74.9 | 23.7 | 1-29-6 | -            | -    | 11.6    | 5.3  | 1-29-6 | -    | -   | -    |
| 14        | - | -       | 71.2 | 22.2         | 75   | 24   | 1-30-6 | -            | -    | 11.4    | 5.2  | 1-30-6 | -    | -   | -    |
| 15        | - | -       | 70.4 | 21.9         | 75   | 24   | 1-31-6 | -            | -    | 11.8    | 5.6  | 1-31-6 | -    | -   | -    |
| 16        | - | -       | 71.3 | 22.3         | 76.7 | 25   | 1-1-7  | -            | -    | 11.1    | 5.1  | 1-1-7  | -    | -   | -    |
| 17        | - | -       | 71.2 | 22.1         | 76   | 24.9 | 1-2-7  | -            | -    | 11.3    | 5.3  | 1-2-7  | -    | -   | -    |
| 18        | - | -       | 71.4 | 22.4         | 76   | 24.9 | 1-3-7  | -            | -    | 11.5    | 5.5  | 1-3-7  | -    | -   | -    |
| 19        | - | -       | 71.7 | 22.6         | 76   | 24.9 | 1-4-7  | -            | -    | 11.3    | 5.3  | 1-4-7  | -    | -   | -    |
| 20        | - | -       | 72.1 | 22.7         | 77   | 25.1 | 1-5-7  | -            | -    | 11.6    | 5.6  | 1-5-7  | -    | -   | -    |
| 21        | - | -       | 72.1 | 22.6         | 77.4 | 25.1 | 1-6-7  | -            | -    | 11.2    | 5.2  | 1-6-7  | -    | -   | -    |
| 22        | - | -       | 71.7 | 22.3         | 76   | 24.9 | 1-7-7  | -            | -    | 11.6    | 5.6  | 1-7-7  | -    | -   | -    |
| 23        | - | -       | 72.1 | 22.7         | 76   | 24.9 | 1-8-7  | -            | -    | 11.1    | 5.1  | 1-8-7  | -    | -   | -    |
| 24        | - | -       | 71.0 | 21.9         | 76.2 | 24.9 | 1-9-7  | -            | -    | 11.6    | 5.5  | 1-9-7  | -    | -   | -    |
| 25        | - | -       | 72.2 | 22.9         | 77.7 | 25.6 | 1-10-7 | -            | -    | 11.3    | 5.8  | 1-10-7 | -    | -   | -    |
| 26        | - | -       | 71.3 | 22.3         | 77   | 25.1 | 1-11-7 | -            | -    | 11.4    | 5.6  | 1-11-7 | -    | -   | -    |
| 27        | - | -       | 72.1 | 22.6         | 77.1 | 25.1 | 1-12-7 | -            | -    | 11.8    | 5.8  | 1-12-7 | -    | -   | -    |
| 28        | - | -       | 72.4 | 22.9         | 77.7 | 25.6 | 1-13-7 | -            | -    | 11.6    | 5.6  | 1-13-7 | -    | -   | -    |
| 29        | - | -       | 72.6 | 23.1         | 78   | 25.9 | 1-14-7 | -            | -    | 11.8    | 5.8  | 1-14-7 | -    | -   | -    |
| 30        | - | -       | 72.7 | 23.1         | 78.7 | 25.7 | 1-15-7 | -            | -    | 11.4    | 5.4  | 1-15-7 | -    | -   | -    |
| 31        | - | -       | -    | -            | -    | -    | -      | -            | -    | -       | -    | -      | -    | -   | -    |
| Monthly   | - | 21.4    | 7.4  | 26.7         | 1    | 41.1 | 1      | -            | 11.6 | 5.6     | 11.7 | 5.7    | 11.8 | 5.8 | 11.9 |

\*ALSO ON EARLIER YEARS

DIRNAVOCCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

4

## DAILY AVERAGE/EXTREME TEMPERATURES

| STATION | STATION NAME |   |      |              |     |      |         |      |      |              |      |      | YEARS   | MONTH |      |
|---------|--------------|---|------|--------------|-----|------|---------|------|------|--------------|------|------|---------|-------|------|
|         | MEAN TEMP    |   |      | MAXIMUM TEMP |     |      |         |      |      | MINIMUM TEMP |      |      |         |       |      |
|         | AVERAGE      |   | C    | AVERAGE      |     | °C   | EXTREME |      | °C   | AVERAGE      |      | °C   | EXTREME |       | °C   |
| 1       | -            | - | 22.0 | -            | 1.2 | 27.0 | -       | 37.0 | 1970 | -            | 14.4 | 17.0 | -       | 6.0   | 1970 |
| 2       | -            | - | 23.0 | -            | 1.9 | 27.0 | -       | 31.6 | 1970 | -            | 15.0 | 17.0 | -       | 7.4   | 1970 |
| 3       | -            | - | 22.7 | -            | 1.2 | 27.0 | -       | 32.0 | 1970 | -            | 14.3 | 17.0 | -       | 6.7   | 1970 |
| 4       | -            | - | 22.0 | -            | 1.6 | 27.0 | -       | 31.0 | 1970 | -            | 13.0 | 17.0 | -       | 5.7   | 1970 |
| 5       | -            | - | 22.0 | -            | 1.2 | 27.0 | -       | 33.0 | 1970 | -            | 14.0 | 17.0 | -       | 6.5   | 1970 |
| 6       | -            | - | 23.4 | -            | 4.0 | 29.0 | -       | 33.0 | 1970 | -            | 16.0 | 17.0 | -       | 11.1  | 1970 |
| 7       | -            | - | 23.3 | -            | 4.0 | 29.0 | -       | 33.0 | 1970 | -            | 16.0 | 17.0 | -       | 11.7  | 1970 |
| 8       | -            | - | 23.0 | -            | 4.4 | 29.0 | -       | 33.0 | 1970 | -            | 14.4 | 13.0 | -       | 1.0   | 1970 |
| 9       | -            | - | 23.7 | -            | 4.7 | 29.0 | -       | 34.0 | 1970 | -            | 14.0 | 17.0 | -       | 7.0   | 1970 |
| 10      | -            | - | 23.0 | -            | 4.0 | 29.0 | -       | 34.0 | 1970 | -            | 14.0 | 17.0 | -       | 7.0   | 1970 |
| 11      | -            | - | 23.0 | -            | 4.0 | 29.0 | -       | 34.0 | 1970 | -            | 14.0 | 17.0 | -       | 7.0   | 1970 |
| 12      | -            | - | 23.4 | -            | 4.0 | 29.0 | -       | 35.0 | 1970 | -            | 15.0 | 17.0 | -       | 1.0   | 1970 |
| 13      | -            | - | 23.0 | -            | 4.1 | 29.0 | -       | 35.0 | 1970 | -            | 15.0 | 17.0 | -       | 1.0   | 1970 |
| 14      | -            | - | 23.0 | -            | 4.0 | 29.0 | -       | 35.0 | 1970 | -            | 15.0 | 17.0 | -       | 1.0   | 1970 |
| 15      | -            | - | 24.0 | -            | 5.3 | 29.0 | -       | 37.0 | 1970 | -            | 16.0 | 17.0 | -       | 1.0   | 1970 |
| 16      | -            | - | 24.0 | -            | 5.4 | 29.0 | -       | 37.0 | 1970 | -            | 16.0 | 17.0 | -       | 1.0   | 1970 |
| 17      | -            | - | 23.0 | -            | 4.0 | 29.0 | -       | 37.0 | 1970 | -            | 15.0 | 17.0 | -       | 1.0   | 1970 |
| 18      | -            | - | 23.0 | -            | 4.0 | 29.0 | -       | 37.0 | 1970 | -            | 15.0 | 17.0 | -       | 1.0   | 1970 |
| 19      | -            | - | 24.0 | -            | 5.0 | 30.0 | -       | 38.0 | 1970 | -            | 16.0 | 17.0 | -       | 1.0   | 1970 |
| 20      | -            | - | 24.0 | -            | 5.0 | 30.0 | -       | 38.0 | 1970 | -            | 16.0 | 17.0 | -       | 1.0   | 1970 |
| 21      | -            | - | 24.0 | -            | 5.0 | 30.0 | -       | 38.0 | 1970 | -            | 16.0 | 17.0 | -       | 1.0   | 1970 |
| 22      | -            | - | 24.0 | -            | 5.0 | 30.0 | -       | 38.0 | 1970 | -            | 16.0 | 17.0 | -       | 1.0   | 1970 |
| 23      | -            | - | 24.0 | -            | 5.0 | 30.0 | -       | 38.0 | 1970 | -            | 16.0 | 17.0 | -       | 1.0   | 1970 |
| 24      | -            | - | 24.0 | -            | 5.0 | 30.0 | -       | 38.0 | 1970 | -            | 16.0 | 17.0 | -       | 1.0   | 1970 |
| 25      | -            | - | 24.0 | -            | 5.0 | 30.0 | -       | 38.0 | 1970 | -            | 16.0 | 17.0 | -       | 1.0   | 1970 |
| 26      | -            | - | 24.0 | -            | 5.0 | 30.0 | -       | 38.0 | 1970 | -            | 16.0 | 17.0 | -       | 1.0   | 1970 |
| 27      | -            | - | 24.0 | -            | 5.0 | 30.0 | -       | 38.0 | 1970 | -            | 16.0 | 17.0 | -       | 1.0   | 1970 |
| 28      | -            | - | 24.0 | -            | 5.0 | 30.0 | -       | 38.0 | 1970 | -            | 16.0 | 17.0 | -       | 1.0   | 1970 |
| 29      | -            | - | 24.0 | -            | 5.0 | 30.0 | -       | 38.0 | 1970 | -            | 16.0 | 17.0 | -       | 1.0   | 1970 |
| 30      | -            | - | 24.0 | -            | 5.0 | 30.0 | -       | 38.0 | 1970 | -            | 16.0 | 17.0 | -       | 1.0   | 1970 |
| 31      | -            | - | 24.0 | -            | 5.0 | 30.0 | -       | 38.0 | 1970 | -            | 16.0 | 17.0 | -       | 1.0   | 1970 |
| Monthly | -            | - | 24.0 | -            | 5.0 | 30.0 | -       | 38.0 | 1970 | -            | 16.0 | 17.0 | -       | 1.0   | 1970 |

\*ALSO ON EARLIER YEARS

DIRNAVOCCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

STATION STATION NAME YEARS MONTH

| DAY     | MEAN TEMP |      |   | MAXIMUM TEMP |      |         |      |         |      | MINIMUM TEMP |      |         |
|---------|-----------|------|---|--------------|------|---------|------|---------|------|--------------|------|---------|
|         | AVERAGE   |      | % | AVERAGE      | %    | AVERAGE | %    | EXTREME | %    | AVERAGE      | %    | EXTREME |
|         | F         | C    | F | C            | F    | C       | F    | C       | F    | C            | F    | C       |
| 1       | •         | 27.0 | • | 40.0         | 22.0 | •       | 47.0 | 24.0    | 1964 | 67.1         | 14.2 | 14.5    |
| 2       | •         | 27.0 | • | 40.4         | 22.4 | 2       | 47.4 | 24.1    | 1964 | 66.0         | 14.0 | 14.6    |
| 3       | •         | 27.0 | • | 40.7         | 22.7 | 10      | 47.7 | 24.0    | 1964 | 65.0         | 13.8 | 14.5    |
| 4       | •         | 27.0 | • | 40.8         | 22.8 | 10      | 47.8 | 24.0    | 1964 | 66.0         | 14.0 | 14.7    |
| 5       | •         | 27.0 | • | 40.8         | 22.8 | 7       | 47.8 | 24.1    | 1964 | 65.0         | 13.8 | 14.6    |
| 6       | •         | 27.0 | • | 40.1         | 22.2 | 2       | 47.7 | 24.7    | 1974 | 66.0         | 14.0 | 14.7    |
| 7       | •         | 27.0 | • | 40.0         | 22.1 | 9       | 47.4 | 24.1    | 1974 | 65.0         | 13.8 | 14.4    |
| 8       | •         | 27.0 | • | 40.1         | 22.4 | 10      | 47.4 | 24.1    | 1974 | 65.0         | 14.0 | 14.7    |
| 9       | •         | 27.0 | • | 40.2         | 22.2 | 10      | 47.5 | 24.2    | 1962 | 65.0         | 14.0 | 14.1    |
| 10      | •         | 27.0 | • | 40.3         | 22.3 | 10      | 47.6 | 24.3    | 1965 | 66.0         | 14.0 | 14.6    |
| 11      | •         | 27.0 | • | 40.1         | 22.0 | 2       | 47.6 | 24.7    | 1979 | 66.0         | 14.0 | 14.9    |
| 12      | •         | 27.0 | • | 40.1         | 22.0 | 2       | 47.6 | 24.8    | 1979 | 66.0         | 14.0 | 14.7    |
| 13      | •         | 27.0 | • | 40.4         | 22.4 | 9       | 47.6 | 24.8    | 1981 | 66.0         | 14.0 | 14.6    |
| 14      | •         | 27.0 | • | 40.1         | 22.1 | 4       | 47.6 | 24.7    | 1974 | 66.0         | 14.0 | 14.7    |
| 15      | •         | 27.0 | • | 40.3         | 22.3 | 9       | 47.8 | 24.9    | 1974 | 65.0         | 14.0 | 14.7    |
| 16      | •         | 27.0 | • | 40.7         | 22.7 | 9       | 47.8 | 24.9    | 1981 | 65.0         | 14.0 | 14.7    |
| 17      | •         | 27.0 | • | 40.1         | 22.4 | 7       | 47.8 | 24.9    | 1982 | 65.0         | 14.0 | 14.7    |
| 18      | •         | 27.0 | • | 40.8         | 22.6 | 10      | 47.8 | 24.9    | 1982 | 65.0         | 14.0 | 14.7    |
| 19      | •         | 27.0 | • | 40.4         | 22.4 | 11      | 47.8 | 24.9    | 1982 | 66.0         | 14.0 | 14.7    |
| 20      | 7         | 27.0 | • | 40.1         | 22.0 | 10      | 47.6 | 24.6    | 1973 | 66.0         | 14.0 | 14.1    |
| 21      | •         | 27.0 | • | 40.7         | 22.7 | 4       | 47.6 | 24.1    | 1967 | 67.0         | 14.4 | 14.7    |
| 22      | •         | 27.0 | • | 40.6         | 22.7 | 9       | 47.6 | 24.7    | 1964 | 67.0         | 14.4 | 14.7    |
| 23      | •         | 27.0 | • | 40.6         | 22.7 | 9       | 47.6 | 24.7    | 1974 | 65.0         | 14.0 | 14.7    |
| 24      | •         | 27.0 | • | 40.6         | 22.6 | 7       | 47.6 | 24.7    | 1964 | 65.0         | 14.0 | 14.6    |
| 25      | 7         | 27.0 | • | 40.6         | 22.6 | 6       | 47.6 | 24.7    | 1961 | 67.0         | 14.7 | 14.8    |
| 26      | •         | 27.0 | • | 40.1         | 22.0 | 2       | 47.7 | 24.1    | 1961 | 66.0         | 14.0 | 14.7    |
| 27      | •         | 27.0 | • | 40.6         | 22.7 | 9       | 47.6 | 24.5    | 1962 | 66.0         | 14.0 | 14.7    |
| 28      | •         | 27.0 | • | 40.6         | 22.7 | 9       | 47.6 | 24.6    | 1960 | 65.0         | 14.0 | 14.6    |
| 29      | •         | 27.0 | • | 40.6         | 22.6 | 10      | 47.6 | 24.6    | 1960 | 66.0         | 14.0 | 14.7    |
| 30      | •         | 27.0 | • | 40.2         | 22.0 | 29.0    | 101  | 3.0     | 1967 | 66.0         | 14.0 | 14.3    |
| 31      | •         | 27.0 | • | 40.7         | 22.7 | 10      | 47.6 | 24.4    | 1943 | 65.0         | 14.0 | 14.3    |
| Monthly | •         | 27.0 | • | 40.3         | 22.3 | 29.0    | 117  | 47.0    | 1962 | 66.0         | 14.0 | 14.6    |

\*ALSO ON EARLIER YEARS

DIRNAVOCANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

4

## DAILY AVERAGE/EXTREME TEMPERATURES

| STATION | STATION NAME | YEARS | MONTH |
|---------|--------------|-------|-------|
|---------|--------------|-------|-------|

| DAY     | MEAN TEMP |      |         | MAXIMUM TEMP |      |      |         |      |         | MINIMUM TEMP |         |      |
|---------|-----------|------|---------|--------------|------|------|---------|------|---------|--------------|---------|------|
|         | AVERAGE   |      | AVERAGE | EXTREME      |      |      | AVERAGE |      | EXTREME |              | AVERAGE |      |
|         | F         | C    | F       | C            | F    | C    | DATE    | F    | C       | F            | C       | DATE |
| 1       | 52.0      | 22.2 | 53.9    | 23.3         | 100  | 37.0 | 1977    | 63.0 | 17.2    | 52.0         | 11.1    | 1977 |
| 2       | 52.0      | 22.2 | 53.4    | 23.3         | 92   | 37.0 | 1977    | 64.0 | 17.2    | 52.0         | 11.1    | 1977 |
| 3       | 52.0      | 22.2 | 53.4    | 23.3         | 97   | 37.0 | 1977    | 64.4 | 17.0    | 52.0         | 11.4    | 1977 |
| 4       | 52.0      | 22.2 | 53.3    | 23.3         | 90   | 37.0 | 1977    | 65.1 | 17.4    | 52.0         | 11.6    | 1977 |
| 5       | 52.0      | 22.2 | 53.1    | 23.0         | 88   | 37.0 | 1977    | 65.0 | 17.7    | 52.0         | 11.8    | 1977 |
| 6       | 52.0      | 22.2 | 52.6    | 22.0         | 81   | 37.0 | 1977    | 62.0 | 17.1    | 52.0         | 12.2    | 1977 |
| 7       | 52.0      | 22.2 | 52.3    | 22.3         | 77   | 35.0 | 1977    | 61.0 | 17.7    | 52.0         | 12.7    | 1977 |
| 8       | 52.0      | 22.2 | 52.0    | 22.0         | 77   | 35.0 | 1977    | 60.5 | 17.1    | 52.0         | 13.1    | 1977 |
| 9       | 52.0      | 22.2 | 52.0    | 22.0         | 70   | 35.0 | 1977    | 60.0 | 17.7    | 52.0         | 13.7    | 1977 |
| 10      | 52.0      | 22.2 | 52.3    | 22.4         | 67   | 35.0 | 1977    | 59.0 | 18.0    | 52.0         | 14.0    | 1977 |
| 11      | 52.0      | 22.2 | 52.0    | 22.0         | 61   | 32.0 | 1976    | 54.0 | 17.6    | 52.0         | 14.6    | 1976 |
| 12      | 52.0      | 22.2 | 52.0    | 22.0         | 57   | 34.0 | 1976    | 53.0 | 17.7    | 52.0         | 15.7    | 1976 |
| 13      | 52.0      | 22.2 | 52.0    | 22.0         | 50   | 35.0 | 1977    | 52.0 | 17.7    | 52.0         | 15.7    | 1977 |
| 14      | 52.0      | 22.2 | 52.0    | 22.0         | 47   | 35.0 | 1977    | 52.0 | 17.7    | 52.0         | 16.0    | 1977 |
| 15      | 52.0      | 22.2 | 52.4    | 22.4         | 40   | 37.0 | 1976    | 54.0 | 17.6    | 52.0         | 16.1    | 1976 |
| 16      | 52.0      | 22.2 | 52.6    | 22.6         | 37   | 34.0 | 1976    | 54.0 | 17.6    | 52.0         | 16.6    | 1976 |
| 17      | 52.0      | 22.2 | 51.0    | 21.1         | 37   | 41.0 | 1974    | 61.0 | 17.1    | 52.0         | 16.8    | 1974 |
| 18      | 52.0      | 22.2 | 51.6    | 21.4         | 26   | 37   | 1974    | 52.0 | 17.0    | 52.0         | 17.0    | 1974 |
| 19      | 52.0      | 22.2 | 51.0    | 21.1         | 23   | 34.0 | 1974    | 52.0 | 17.7    | 52.0         | 17.0    | 1974 |
| 20      | 52.0      | 22.2 | 51.0    | 21.1         | 20   | 33.0 | 1977    | 51.0 | 17.6    | 52.0         | 17.1    | 1977 |
| 21      | 52.0      | 22.2 | 52.0    | 22.0         | 17   | 30.0 | 1977    | 50.0 | 17.4    | 52.0         | 17.6    | 1977 |
| 22      | 52.0      | 22.2 | 52.0    | 22.0         | 14   | 30.0 | 1977    | 49.0 | 17.6    | 52.0         | 17.7    | 1977 |
| 23      | 52.0      | 22.2 | 51.0    | 21.1         | 11   | 23.0 | 1974    | 47.0 | 17.0    | 52.0         | 17.8    | 1974 |
| 24      | 52.0      | 22.2 | 52.0    | 22.0         | 9    | 23.0 | 1974    | 46.0 | 17.0    | 52.0         | 18.1    | 1974 |
| 25      | 52.0      | 22.2 | 52.0    | 22.0         | 6    | 22.0 | 1974    | 45.0 | 16.0    | 52.0         | 18.4    | 1974 |
| 26      | 52.0      | 22.2 | 52.0    | 22.0         | 3    | 22.0 | 1973    | 44.0 | 17.0    | 52.0         | 18.6    | 1973 |
| 27      | 52.0      | 22.2 | 51.0    | 21.1         | 0    | 22.0 | 1973    | 43.0 | 17.1    | 52.0         | 18.6    | 1973 |
| 28      | 52.0      | 22.2 | 51.0    | 21.1         | 26.0 | 34.0 | 1973    | 42.0 | 17.4    | 52.0         | 18.8    | 1973 |
| 29      | 52.0      | 22.2 | 51.0    | 21.1         | 24.0 | 31.0 | 1973    | 41.0 | 17.7    | 52.0         | 19.2    | 1973 |
| 30      | 52.0      | 22.2 | 51.0    | 21.1         | 21.0 | 30.0 | 1973    | 40.0 | 17.7    | 52.0         | 19.6    | 1973 |
| 31      | 52.0      | 22.2 | 51.0    | 21.1         | 17.0 | 30.0 | 1973    | 39.0 | 17.7    | 52.0         | 19.7    | 1973 |
| Monthly | 52.0      | 22.2 | 51.3    | 21.4         | 17   | 41.0 | 1974    | 63.0 | 17.4    | 52.0         | 19.8    | 1974 |

\*ALSO ON EARLIER YEARS

DIRNAVOCCEANMET-SMOS

4  
NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

| STATION | STATION NAME | YEARS | MONTH |
|---------|--------------|-------|-------|
|---------|--------------|-------|-------|

| DAY     | MEAN TEMP |   |      | MAXIMUM TEMP |         |      |      |      |      | MINIMUM TEMP |      |      |    |      |     |
|---------|-----------|---|------|--------------|---------|------|------|------|------|--------------|------|------|----|------|-----|
|         | AVERAGE   |   | °F   | °C           | AVERAGE |      | °F   | °C   | DATE | AVERAGE      |      | °F   | °C | DATE |     |
|         | F         | C |      |              | °F      | °C   |      |      |      | °F           | °C   |      |    |      |     |
| 1       | •         | • | 51.1 | 10.6         | 51.1    | 22.3 | 50.4 | 10.0 | 54.4 | 12.4         | 51.0 | 10.6 | 41 | 1.4  | 1.4 |
| 2       | •         | 7 | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 54.4 | 12.4         | 52.0 | 10.0 | 46 | 4    | 4   |
| 3       | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 46 | 4    | 7   |
| 4       | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 5       | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 6       | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 7       | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 8       | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 9       | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 10      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 11      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 12      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 13      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 14      | •         | 7 | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 15      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 16      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 17      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 18      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 19      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 20      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 21      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 22      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 23      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 24      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 25      | •         | 7 | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 26      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 27      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 28      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 29      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 30      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| 31      | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |
| Monthly | •         | • | 52.0 | 10.0         | 52.0    | 26.7 | 52.0 | 10.0 | 57.7 | 15.3         | 52.0 | 10.0 | 47 | 5.2  | 1.7 |

\*ALSO ON EARLIER YEARS

DIRNAVOCCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

| STATION | STATION NAME | YEARS | MONTH |
|---------|--------------|-------|-------|
|---------|--------------|-------|-------|

| DAY     | MEAN TEMP |     | MAXIMUM TEMP |      |         |      |         |      | MINIMUM TEMP |      |         |      |         |     |      |     |      |
|---------|-----------|-----|--------------|------|---------|------|---------|------|--------------|------|---------|------|---------|-----|------|-----|------|
|         | AVERAGE   |     | AVERAGE      |      | EXTREME |      | AVERAGE |      | EXTREME      |      | AVERAGE |      | EXTREME |     |      |     |      |
|         | °F        | °C  | °F           | °C   | °F      | °C   | DATE    | °F   | °C           | °F   | °C      | DATE | °F      | °C  | °F   | °C  | DATE |
| 1       | 42.1      | 7.3 | 52.0         | 10.0 | 72.7    | 22.1 | 47.5    | 8.1  | 74.0         | 14.0 | 11.7    | -1.1 | 4.4     | 1.1 | 4.4  | 1.1 | 1971 |
| 2       | 42.1      | 7.3 | 52.2         | 10.0 | 71.0    | 21.1 | 47.7    | 8.3  | 74.2         | 14.2 | 12.7    | -1.5 | 4.4     | 1.1 | 4.4  | 1.1 | 1971 |
| 3       | 42.1      | 7.3 | 51.7         | 10.0 | 70.0    | 21.1 | 47.1    | 8.1  | 73.2         | 14.0 | 12.7    | -1.5 | 4.3     | 1.0 | 4.3  | 1.0 | 1971 |
| 4       | 42.1      | 7.3 | 51.7         | 10.0 | 69.4    | 20.7 | 47.3    | 8.3  | 72.7         | 13.7 | 12.3    | -1.5 | 4.3     | 1.0 | 4.3  | 1.0 | 1971 |
| 5       | 42.1      | 7.3 | 51.7         | 10.0 | 68.1    | 20.1 | 47.3    | 8.3  | 72.0         | 13.7 | 12.1    | -1.5 | 4.3     | 1.0 | 4.3  | 1.0 | 1971 |
| 6       | 42.1      | 7.3 | 51.7         | 10.0 | 67.7    | 20.1 | 47.1    | 7.7  | 71.1         | 13.1 | 11.7    | -1.5 | 4.1     | 1.0 | 4.1  | 1.0 | 1971 |
| 7       | 42.1      | 7.3 | 51.3         | 10.0 | 67.1    | 20.1 | 47.1    | 7.7  | 70.6         | 13.1 | 11.4    | -1.5 | 4.1     | 1.0 | 4.1  | 1.0 | 1971 |
| 8       | 42.1      | 7.3 | 51.3         | 10.0 | 67.1    | 20.1 | 47.4    | 7.7  | 70.5         | 13.1 | 11.4    | -1.5 | 4.1     | 1.0 | 4.1  | 1.0 | 1971 |
| 9       | 42.1      | 7.3 | 51.3         | 10.0 | 67.5    | 19.5 | 47.7    | 7.7  | 70.5         | 13.1 | 11.4    | -1.5 | 4.1     | 1.0 | 4.1  | 1.0 | 1971 |
| 10      | 42.1      | 7.3 | 51.3         | 10.0 | 67.5    | 19.5 | 47.7    | 7.7  | 70.7         | 13.2 | 11.4    | -1.5 | 4.1     | 1.0 | 4.1  | 1.0 | 1971 |
| 11      | 42.1      | 7.3 | 51.7         | 10.0 | 67.7    | 19.5 | 47.7    | 7.7  | 70.7         | 13.2 | 11.4    | -1.5 | 4.1     | 1.0 | 4.1  | 1.0 | 1971 |
| 12      | 42.1      | 7.3 | 51.7         | 10.0 | 68.4    | 20.0 | 47.7    | 7.7  | 71.1         | 13.6 | 11.2    | -1.5 | 4.1     | 1.0 | 4.1  | 1.0 | 1971 |
| 13      | 42.1      | 7.3 | 51.7         | 10.0 | 68.7    | 20.0 | 47.7    | 7.7  | 71.2         | 13.6 | 11.2    | -1.5 | 4.1     | 1.0 | 4.1  | 1.0 | 1971 |
| 14      | 42.1      | 7.3 | 51.7         | 10.0 | 68.2    | 20.0 | 47.4    | 19.7 | 70.0         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 15      | 42.1      | 7.3 | 51.7         | 10.0 | 68.3    | 20.0 | 47.3    | 19.7 | 70.0         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 16      | 42.1      | 7.3 | 51.6         | 10.0 | 68.2    | 20.0 | 47.3    | 19.7 | 70.0         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 17      | 42.1      | 7.3 | 51.6         | 10.0 | 68.5    | 20.0 | 47.3    | 19.7 | 70.1         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 18      | 42.1      | 7.3 | 51.6         | 10.0 | 68.5    | 20.0 | 47.3    | 19.7 | 70.1         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 19      | 42.1      | 7.3 | 51.6         | 10.0 | 68.7    | 20.0 | 47.3    | 19.7 | 70.2         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 20      | 42.1      | 7.3 | 51.7         | 10.0 | 68.3    | 19.5 | 47.3    | 19.7 | 70.2         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 21      | 42.1      | 7.3 | 51.7         | 10.0 | 68.7    | 19.5 | 47.3    | 19.7 | 70.2         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 22      | 42.1      | 7.3 | 51.7         | 10.0 | 68.5    | 19.3 | 47.3    | 19.7 | 70.3         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 23      | 42.1      | 7.3 | 51.5         | 10.0 | 68.1    | 19.5 | 47.1    | 19.7 | 70.1         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 24      | 42.1      | 7.3 | 51.1         | 10.0 | 68.0    | 19.5 | 47.1    | 19.7 | 70.1         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 25      | 42.1      | 7.3 | 51.4         | 10.0 | 68.3    | 19.1 | 47.3    | 19.7 | 70.1         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 26      | 42.1      | 7.3 | 51.1         | 10.0 | 68.5    | 19.1 | 47.1    | 19.7 | 70.1         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 27      | 42.1      | 7.3 | 51.1         | 10.0 | 68.7    | 19.0 | 47.3    | 19.7 | 70.1         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 28      | 42.1      | 7.3 | 51.2         | 10.0 | 68.7    | 19.0 | 47.3    | 19.7 | 70.2         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 29      | 42.1      | 7.3 | 51.1         | 10.0 | 68.5    | 19.0 | 47.3    | 19.7 | 70.2         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 30      | 42.1      | 7.3 | 51.4         | 10.0 | 68.4    | 19.0 | 47.3    | 19.7 | 70.2         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| 31      | 42.1      | 7.3 | 51.1         | 10.0 | 67.9    | 18.9 | 47.3    | 19.7 | 70.2         | 13.7 | 11.2    | -1.5 | 4.2     | 1.0 | 4.2  | 1.0 | 1971 |
| Monthly | 42.1      | 7.3 | 51.1         | 10.0 | 67.9    | 18.9 | 47.3    | 19.7 | 70.2         | 13.7 | 10.9    | 5.4  | 10.9    | 5.4 | 10.9 | 5.4 | 1971 |

\* ALSO ON EARLIER YEARS

DIRNAVOCANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

| STATION | STATION NAME                       | YEARS                                 | MONTH                                 |            |              |              |            |
|---------|------------------------------------|---------------------------------------|---------------------------------------|------------|--------------|--------------|------------|
| ECE 196 |                                    |                                       |                                       |            |              |              |            |
| DAY     | MEAN TEMP<br>AVERAGE<br>°F      °C | MAXIMUM TEMP<br>AVERAGE<br>°F      °C | MINIMUM TEMP<br>AVERAGE<br>°F      °C |            |              |              |            |
|         |                                    | AVERAGE<br>°F      °C                 | EXTREME<br>°F      °C                 |            |              |              |            |
| 1       | -                                  | 12.4<br>5.2                           | 30.5<br>17.0                          | 70<br>23.0 | 1970<br>1975 | 45.7<br>46.0 | 1.1<br>1.2 |
| 2       | -                                  | 12.4<br>5.2                           | 30.5<br>17.0                          | 71<br>23.0 | 1975         | 46.0         | 1.1        |
| 3       | -                                  | 12.4<br>5.2                           | 30.5<br>17.0                          | 72<br>23.0 | 1975         | 46.0         | 1.1        |
| 4       | -                                  | 12.4<br>5.2                           | 30.5<br>17.0                          | 72<br>23.0 | 1975         | 46.0         | 1.1        |
| 5       | -                                  | 12.4<br>5.2                           | 30.5<br>17.0                          | 72<br>23.0 | 1975         | 46.0         | 1.1        |
| 6       | -                                  | 12.4<br>5.2                           | 30.5<br>17.0                          | 6<br>20.0  | 1975         | 46.5         | 1.1        |
| 7       | -                                  | 12.4<br>5.2                           | 30.5<br>17.0                          | 6<br>20.0  | 1975         | 47.7         | 1.7        |
| 8       | -                                  | 12.4<br>5.2                           | 30.5<br>17.0                          | 7<br>21.1  | 1975         | 47.4         | 1.7        |
| 9       | -                                  | 12.4<br>5.2                           | 30.5<br>17.0                          | 7<br>21.1  | 1975         | 47.4         | 1.7        |
| 10      | -                                  | 12.4<br>5.2                           | 30.5<br>17.0                          | 7<br>21.1  | 1975         | 47.4         | 1.7        |
| 11      | -                                  | 13.1<br>5.5                           | 31.1<br>17.2                          | 71<br>22.0 | 1971         | 46.7         | 1.7        |
| 12      | -                                  | 13.1<br>5.5                           | 31.1<br>17.2                          | 71<br>22.0 | 1971         | 46.7         | 1.7        |
| 13      | -                                  | 12.4<br>5.2                           | 30.5<br>17.0                          | 72<br>22.0 | 1971         | 47.0         | 1.7        |
| 14      | -                                  | 12.4<br>5.2                           | 30.5<br>17.0                          | 72<br>22.0 | 1971         | 46.1         | 1.7        |
| 15      | -                                  | 11.3<br>5.1                           | 30.2<br>16.2                          | 7<br>21.1  | 1971         | 45.0         | 1.7        |
| 16      | -                                  | 10.2<br>5.0                           | 29.7<br>16.5                          | 7<br>21.1  | 1971         | 44.2         | 1.7        |
| 17      | -                                  | 12.1<br>5.5                           | 30.6<br>15.6                          | 7<br>21.1  | 1971         | 47.0         | 1.7        |
| 18      | -                                  | 10.1<br>5.0                           | 29.2<br>16.2                          | 6<br>20.0  | 1971         | 44.7         | 1.7        |
| 19      | -                                  | 11.3<br>5.1                           | 30.3<br>16.1                          | 6<br>20.0  | 1972         | 45.0         | 1.7        |
| 20      | -                                  | 11.7<br>5.3                           | 30.9<br>16.1                          | 6<br>20.0  | 1972         | 45.3         | 1.7        |
| 21      | -                                  | 11.6<br>5.2                           | 30.7<br>15.7                          | 5<br>19.4  | 1974         | 45.3         | 1.7        |
| 22      | -                                  | 11.7<br>5.3                           | 30.4<br>16.3                          | 7<br>21.1  | 1971         | 44.7         | 1.7        |
| 23      | -                                  | 11.9<br>5.5                           | 31.0<br>16.0                          | 7<br>21.1  | 1970         | 45.0         | 1.7        |
| 24      | -                                  | 12.0<br>5.5                           | 31.0<br>16.0                          | 7<br>21.1  | 1977         | 46.2         | 1.7        |
| 25      | -                                  | 11.4<br>5.1                           | 30.2<br>15.6                          | 7<br>22.0  | 1977         | 45.0         | 1.7        |
| 26      | -                                  | 11.3<br>5.0                           | 30.7<br>15.4                          | 6<br>15.0  | 1977         | 45.0         | 1.7        |
| 27      | -                                  | 11.7<br>5.3                           | 30.4<br>16.1                          | 7<br>22.0  | 1973         | 45.5         | 1.7        |
| 28      | -                                  | 11.6<br>5.2                           | 30.0<br>15.6                          | 71<br>21.0 | 1974         | 45.3         | 1.7        |
| 29      | -                                  | 11.7<br>5.3                           | 30.9<br>15.6                          | 71<br>21.0 | 1974         | 46.1         | 1.7        |
| 30      | -                                  | 11.7<br>5.3                           | 30.6<br>16.3                          | 6<br>19.6  | 1973         | 45.3         | 1.7        |
| 31      | -                                  | 11.4<br>5.1                           | 30.7<br>16.3                          | 6<br>19.6  | 1972         | 45.4         | 1.7        |
| Monthly | -                                  | 11.2<br>5.0                           | 30.7<br>16.0                          | 75<br>22.0 | 1972         | 46.1         | 1.7        |

\* ALSO ON EARLIER YEARS

DIRNAVOCHEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# EXTREME VALUES

**THE DAILY TEMPERAT.**  
**(FROM DAILY OBSERVATIONS)**

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

**EXTREME VALUES**

MAXIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

DEGREES FAHRENHEIT  
(AVERAGE IN LESS THAN FULL MINUTE)

| MONTH<br>YEAR | JAN. | FEB. | MAR. | APR. | MAY | JUN. | JUL. | AUG. | SEP. | OCT | NOV. | DEC | ALL<br>MONTHS |
|---------------|------|------|------|------|-----|------|------|------|------|-----|------|-----|---------------|
|               |      |      |      |      |     |      |      |      |      |     |      |     |               |
|               |      |      |      |      |     |      |      |      |      |     |      |     |               |
|               |      |      |      |      |     |      |      |      |      |     |      |     |               |
|               |      |      |      |      |     |      |      |      |      |     |      |     |               |
|               |      |      |      |      |     |      |      |      |      |     |      |     |               |
|               |      |      |      |      |     |      |      |      |      |     |      |     |               |
|               |      |      |      |      |     |      |      |      |      |     |      |     |               |
|               |      |      |      |      |     |      |      |      |      |     |      |     |               |
|               |      |      |      |      |     |      |      |      |      |     |      |     |               |
|               |      |      |      |      |     |      |      |      |      |     |      |     |               |
| MEAN          |      |      |      |      |     |      |      |      |      |     |      |     |               |
| S.D.          |      |      |      |      |     |      |      |      |      |     |      |     |               |
| TOTAL OBS     |      |      |      |      |     |      |      |      |      |     |      |     |               |

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## EXTREME VALUES

STATION TEMPERATURE  
(FROM DAILY OBSERVATIONS)

| STATION       |      | STATION NAME          |      |      |      |      |      |      |      |      |      |      |               | YEARS |      |      |      |      |
|---------------|------|-----------------------|------|------|------|------|------|------|------|------|------|------|---------------|-------|------|------|------|------|
|               |      | FORTRESS CAMP, U.S.A. |      |      |      |      |      |      |      |      |      |      |               |       |      |      |      |      |
| MONTH<br>YEAR | JAN. | FEB.                  | MAR. | APR. | MAY  | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC. | ALL<br>MONTHS |       |      |      |      |      |
|               | -    | -                     | -    | 4.5  | 4.7  | 4    | 4.7  | 4    | 4.7  | 4    | 4.7  | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 1             | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 2             | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 3             | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 4             | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 5             | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 6             | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 7             | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 8             | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 9             | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 10            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 11            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 12            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 13            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 14            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 15            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 16            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 17            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 18            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 19            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 20            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 21            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 22            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 23            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 24            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 25            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 26            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 27            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 28            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 29            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 30            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| 31            | 4.5  | 4.7                   | 4.5  | 4    | 4.1  | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4             | 4     | 4    | 4    | 4    | 4    |
| MEAN          | 4.5  | 4.7                   | 4.5  | 4.5  | 4.6  | 4.5  | 4.5  | 4.5  | 4.5  | 4.5  | 4.5  | 4.5  | 4.5           | 4.5   | 4.5  | 4.5  | 4.5  | 4.5  |
| SD            | 0.2  | 0.22                  | 0.20 | 0.16 | 0.17 | 0.16 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17          | 0.17  | 0.17 | 0.17 | 0.17 | 0.17 |
| TOTAL OBS     | 44   | 67                    | 74   | 72   | 74   | 72   | 74   | 72   | 74   | 713  | 727  | 775  | 727           | 775   | 727  | 775  | 727  | 775  |

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

**EXTREME VALUES**

STATION TEMPERATURE  
(FROM DAILY OBSERVATIONS)

STATION \_\_\_\_\_ STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_

MAX. DEGREES FAHRENHEIT  
MAINTAINED LESS THAN FULL MONTH

| MONTH<br>YEAR | JAN. | FEB. | MAR. | APR. | MAY | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC. | ALL<br>MONTHS |
|---------------|------|------|------|------|-----|------|------|------|------|------|------|------|---------------|
| 6             |      |      |      |      |     |      |      |      |      |      |      |      |               |
| 7             |      |      |      |      |     |      |      |      |      |      |      |      |               |
| 8             |      |      |      |      |     |      |      |      |      |      |      |      |               |
| 9             |      |      |      |      |     |      |      |      |      |      |      |      |               |
| 10            |      |      |      |      |     |      |      |      |      |      |      |      |               |
| 11            |      |      |      |      |     |      |      |      |      |      |      |      |               |
| 12            |      |      |      |      |     |      |      |      |      |      |      |      |               |
| MEAN          |      |      |      |      |     |      |      |      |      |      |      |      |               |
| SD            |      |      |      |      |     |      |      |      |      |      |      |      |               |
| TOTAL OBS     |      |      |      |      |     |      |      |      |      |      |      |      |               |

SMOS

## **PSYCHROMETRIC SUMMARY**

STATION

STATION NAME

—YEARS

- ८ -

## PSYCHROMETRIC SUMMARY

**STATION** \_\_\_\_\_ **STATION NAME** \_\_\_\_\_ **YEARS** \_\_\_\_\_ **MONTH** \_\_\_\_\_

STATION NAME

- - - -  
YEARS

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## PSYCHROMETRIC SUMMARY

**STATION**      **STATION NAME**      **YEAR**

## PSYCHROMETRIC SUMMARY

| STATION   | STATION NAME                      | YEARS | MONTHS |       |       |        |         |         |         |         |         |         |         |         |         |         |    |  |  |  |  |  |  |  |  |  |  |  |  |             |             |          |          |           |
|-----------|-----------------------------------|-------|--------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|--|--|--|--|--|--|--|--|--|--|--|--|-------------|-------------|----------|----------|-----------|
| Temp<br>F | WET BULB TEMPERATURE DEPRESSION F |       |        |       |       |        |         |         |         |         |         |         |         |         |         |         |    |  |  |  |  |  |  |  |  |  |  |  |  | TOTAL<br>DB | TOTAL<br>WB | D-y Bulb | Wet Bulb | Dew Point |
|           | 0                                 | 1 - 2 | 3 - 4  | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | 31 |  |  |  |  |  |  |  |  |  |  |  |  |             |             |          |          |           |

| Element X | -X | $\Sigma x$ | $\bar{x}$ | $s_x$ | No Obs | Mean No. of Hours w/ Temperature |
|-----------|----|------------|-----------|-------|--------|----------------------------------|
| Rel Hum   |    |            |           |       | 10 F   | 132 F                            |
| Dry Bulb  |    |            |           |       | 67 F   | 73 F                             |
| Wet Bulb  |    |            |           |       | 80 F   | 86 F                             |
| Dew Point |    |            |           |       | 93 F   | 98 F                             |
|           |    |            |           |       | Total  |                                  |

## **PSYCHROMETRIC SUMMARY**

STATION STATION NAME YEARS MONTH

## **PSYCHROMETRIC SUMMARY**

**STATION**      **STATION NAME**      **YEARS**      **MONTHS**

## **PSYCHROMETRIC SUMMARY**

STATION STATION NAME YEARS DISTANCE

## PSYCHROMETRIC SUMMARY

STATION

STATION NAME

YEARS

NAME

## PSYCHROMETRIC SUMMARY

STATION ————— STATION NAME ————— YEARS ————— MONTH

## **PSYCHROMETRIC SUMMARY**

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## PSYCHROMETRIC SUMMARY

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## **PSYCHROMETRIC SUMMARY**

**STATION** \_\_\_\_\_ **STATION NAME** \_\_\_\_\_ **YEARS** \_\_\_\_\_ **MONTH** \_\_\_\_\_

## **PSYCHROMETRIC SUMMARY**

STATION

STATION NAME

## YEARS

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## PSYCHROMETRIC SUMMARY

| STATION                             | STATION NAME  | YEARS           | MONTH                       |
|-------------------------------------|---|-----------------|-----------------------------|
| Temp<br>F                           | 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | TOTAL<br>DB W B | Dry Bulb Wet Bulb Dew Point |
| WET BULB TEMPERATURE DEPRESSION, F. |   |                 |                             |
|                                     |   |                 |                             |
| Element                             | X   | $\bar{x}$       | $\bar{X}$                   |
| Rel. Hum.                           | .   | .               | 10 F                        |
| Dry Bulb                            | .   | .               | 32 F                        |
| Wet Bulb                            | .   | .               | 67 F                        |
| Dew Point                           | .   | .               | 73 F                        |
|                                     |   |                 | 180 F                       |
|                                     |   |                 | 93 F                        |
|                                     |   |                 | Total                       |

## PSYCHROMETRIC SUMMARY

STATION NAME \_\_\_\_\_ YEARS \_\_\_\_\_ MONTH \_\_\_\_\_

## PSYCHROMETRIC SUMMARY

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STATION NAME

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## PSYCHROMETRIC SUMMARY

STATION NAME STARS

WET BULB TEMPERATURE DEPRESSION, °F.

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## **PSYCHROMETRIC SUMMARY**

STATION

STATION NAME

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| Temp<br>F | WET BULB TEMPERATURE DEPRESSION F |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |      | TOTAL<br>D.B. | TOTAL<br>W.B.D. |      |      |       |       |    |    |    |    |    |
|-----------|-----------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|------|---------------|-----------------|------|------|-------|-------|----|----|----|----|----|
|           | 0                                 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19   | 20            | 21              | 22   | 23   | 24    | 25    | 26 | 27 | 28 | 29 | 30 |
| Re. Hum   |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    | 10 F | 132 F         | 57 F            | 73 F | 80 F | 183 F | 100 F |    |    |    |    |    |
| Dry Bulb  |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    | 10 F | 132 F         | 57 F            | 73 F | 80 F | 183 F | 100 F |    |    |    |    |    |
| Wet Bulb  |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    | 10 F | 132 F         | 57 F            | 73 F | 80 F | 183 F | 100 F |    |    |    |    |    |
| Dew Point |                                   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    | 10 F | 132 F         | 57 F            | 73 F | 80 F | 183 F | 100 F |    |    |    |    |    |

## PSYCHROMETRIC SUMMARY

**STATION**

STATION NAME

118

## MEANS AND STANDARD DEVIATIONS

4. MEAN AND STANDARD DEVIATION FOR MONTHLY OBSERVATION

| STATION   | STATION NAME  | YEARS      |      |      |      |      |      |      |      |      |      |       |       |        |
|-----------|---------------|------------|------|------|------|------|------|------|------|------|------|-------|-------|--------|
|           |               | JAN.       | FEB. | MAR. | APR. | MAY  | JUN. | JUL. | AUG. | SEP. | OCT. | NOV.  | DEC.  | ANNUAL |
|           |               | MEAN       | 7.1  | 7.0  | 7.0  | 55.7 | 7.1  | 6.6  | 71.7 | 71.2 | 7.0  | 72.0  | 71.8  | 71.4   |
|           |               | S.D.       | 0.1  | 0.4  | 0.6  | 6.4  | 0.1  | 0.4  | 4.3  | 7.0  | 0.2  | 4.270 | 4.072 | 4.092  |
|           |               | TOTAL OBS. | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11    | 11    | 11     |
|           |               | MEAN       | 7.1  | 7.0  | 7.0  | 52.7 | 7.0  | 6.4  | 67.4 | 67.4 | 7.0  | 70.5  | 70.1  | 70.1   |
|           |               | S.D.       | 0.1  | 0.4  | 0.6  | 4.6  | 0.1  | 0.4  | 4.6  | 7.0  | 0.2  | 4.044 | 4.077 | 4.062  |
|           |               | TOTAL OBS. | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11    | 11    | 11     |
|           |               | MEAN       | 7.1  | 7.0  | 7.0  | 57.6 | 7.0  | 6.4  | 67.4 | 67.4 | 7.0  | 70.5  | 70.1  | 70.1   |
|           |               | S.D.       | 0.1  | 0.4  | 0.6  | 4.6  | 0.1  | 0.4  | 4.6  | 7.0  | 0.2  | 4.044 | 4.077 | 4.062  |
|           |               | TOTAL OBS. | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11    | 11    | 11     |
|           |               | MEAN       | 7.1  | 7.0  | 7.0  | 52.7 | 7.0  | 6.4  | 67.4 | 67.4 | 7.0  | 70.5  | 70.1  | 70.1   |
|           |               | S.D.       | 0.1  | 0.4  | 0.6  | 4.6  | 0.1  | 0.4  | 4.6  | 7.0  | 0.2  | 4.044 | 4.077 | 4.062  |
|           |               | TOTAL OBS. | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11    | 11    | 11     |
|           |               | MEAN       | 7.1  | 7.0  | 7.0  | 57.6 | 7.0  | 6.4  | 67.4 | 67.4 | 7.0  | 70.5  | 70.1  | 70.1   |
|           |               | S.D.       | 0.1  | 0.4  | 0.6  | 4.6  | 0.1  | 0.4  | 4.6  | 7.0  | 0.2  | 4.044 | 4.077 | 4.062  |
|           |               | TOTAL OBS. | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11    | 11    | 11     |
|           |               | MEAN       | 7.1  | 7.0  | 7.0  | 52.7 | 7.0  | 6.4  | 67.4 | 67.4 | 7.0  | 70.5  | 70.1  | 70.1   |
|           |               | S.D.       | 0.1  | 0.4  | 0.6  | 4.6  | 0.1  | 0.4  | 4.6  | 7.0  | 0.2  | 4.044 | 4.077 | 4.062  |
|           |               | TOTAL OBS. | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11    | 11    | 11     |
|           |               | MEAN       | 7.1  | 7.0  | 7.0  | 57.6 | 7.0  | 6.4  | 67.4 | 67.4 | 7.0  | 70.5  | 70.1  | 70.1   |
|           |               | S.D.       | 0.1  | 0.4  | 0.6  | 4.6  | 0.1  | 0.4  | 4.6  | 7.0  | 0.2  | 4.044 | 4.077 | 4.062  |
|           |               | TOTAL OBS. | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11    | 11    | 11     |
|           |               | MEAN       | 7.1  | 7.0  | 7.0  | 52.7 | 7.0  | 6.4  | 67.4 | 67.4 | 7.0  | 70.5  | 70.1  | 70.1   |
|           |               | S.D.       | 0.1  | 0.4  | 0.6  | 4.6  | 0.1  | 0.4  | 4.6  | 7.0  | 0.2  | 4.044 | 4.077 | 4.062  |
|           |               | TOTAL OBS. | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11    | 11    | 11     |
|           |               | MEAN       | 7.1  | 7.0  | 7.0  | 57.6 | 7.0  | 6.4  | 67.4 | 67.4 | 7.0  | 70.5  | 70.1  | 70.1   |
|           |               | S.D.       | 0.1  | 0.4  | 0.6  | 4.6  | 0.1  | 0.4  | 4.6  | 7.0  | 0.2  | 4.044 | 4.077 | 4.062  |
|           |               | TOTAL OBS. | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11    | 11    | 11     |
| ALL HOURS | NAVWEASERVCOM | MEAN       | 7.1  | 7.0  | 7.0  | 57.3 | 7.0  | 6.7  | 67.9 | 67.9 | 7.0  | 70.5  | 70.1  | 70.1   |
|           |               | S.D.       | 0.1  | 0.4  | 0.6  | 4.6  | 0.1  | 0.4  | 4.6  | 7.0  | 0.2  | 4.044 | 4.077 | 4.062  |
|           |               | TOTAL OBS. | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11    | 11    | 11     |

## MEANS AND STANDARD DEVIATIONS

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## MEANS AND STANDARD DEVIATIONS

EFFECTS OF THE 21ST CENTURY EARTHQUAKE ON HURRICANE ACTIVITY

| STATION   | STATION NAME | YEARS      |      |      |      |      |      |      |      |      |      |      |      |        |
|-----------|--------------|------------|------|------|------|------|------|------|------|------|------|------|------|--------|
|           |              | JAN.       | FEB. | MAR. | APR. | MAY  | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC. | ANNUAL |
|           |              | MEAN       | 44.7 | 45.6 | 47.6 | 47.6 | 45.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6   |
|           |              | S.D.       | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2    |
|           |              | TOTAL OBS. | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310    |
|           |              | MEAN       | 45.6 | 46.7 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6   |
|           |              | S.D.       | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2    |
|           |              | TOTAL OBS. | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310    |
|           |              | MEAN       | 44.7 | 45.6 | 46.7 | 46.7 | 45.6 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7   |
|           |              | S.D.       | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2    |
|           |              | TOTAL OBS. | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310    |
|           |              | MEAN       | 45.6 | 46.7 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6   |
|           |              | S.D.       | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2    |
|           |              | TOTAL OBS. | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310    |
|           |              | MEAN       | 45.6 | 46.7 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6   |
|           |              | S.D.       | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2    |
|           |              | TOTAL OBS. | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310    |
|           |              | MEAN       | 45.6 | 46.7 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6   |
|           |              | S.D.       | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2    |
|           |              | TOTAL OBS. | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310    |
|           |              | MEAN       | 45.6 | 46.7 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6   |
|           |              | S.D.       | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2    |
|           |              | TOTAL OBS. | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310    |
| ALL HOURS |              | MEAN       | 45.6 | 46.7 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6   |
| ALL HOURS |              | S.D.       | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2  | 1.2    |
| ALL HOURS |              | TOTAL OBS. | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310  | 310    |

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## **RELATIVE HUMIDITY**

STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## RELATIVE HUMIDITY

STATION PORTER STATION STATION NAME 1 - 70 PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |       |       |       |       | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|--------|----------------|--|-------|-------|-------|-------|-------|-------|-------|-------|------------------------------|-------------------------|
|        |                | 10%  | 20%   | 30%   | 40%   | 50%   | 60%   | 70%   | 80%   | 90%   |                              |                         |
| JAN    | 11.0           | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 73.7                         | 100                     |
| FEB    | 11.0           | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 73.4                         | 100                     |
| MAR    | 11.0           | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 74.5                         | 100                     |
| APR    | 11.0           | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 73.4                         | 100                     |
| MAY    | 11.0           | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 77.7                         | 100                     |
| JUN    | 11.0           | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 77.0                         | 100                     |
| JUL    | 11.0           | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 74.4                         | 100                     |
| AUG    | 11.0           | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 71.4                         | 100                     |
| SEP    | 11.0           | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 70.0                         | 100                     |
| OCT    | 11.0           | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 70.0                         | 100                     |
| NOV    | 11.0           | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 70.0                         | 100                     |
| DEC    | 11.0           | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 70.0                         | 100                     |
| TOTALS |                | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 73.7                         | 1000                    |

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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

**RELATIVE HUMIDITY**

4

STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>LST | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |     |     |     |     |     |     |     |     | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS |
|--------|--------------|--|-----|-----|-----|-----|-----|-----|-----|-----|------------------------------|------------------------|
|        |              | 10%  | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% |                              |                        |
| JAN    | 1            | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                    |
| FEB    | 1            | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                    |
| MAR    | 1            | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                    |
| APR    | 1            | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                    |
| MAY    | 1            | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                    |
| JUN    | 1            | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                    |
| JUL    | 1            | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                    |
| AUG    | 1            | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                    |
| SEP    | 1            | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                    |
| OCT    | 1            | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                    |
| NOV    | 1            | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                    |
| DEC    | 1            | 1.0  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                    |
| TOTALS |              | 0.7  | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                          | 1.0                    |

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE - NORTH CAROLINA

4

## RELATIVE HUMIDITY

STATION NAME PERIOD MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |     |      |      |     |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS |
|--------|----------------|--|-----|------|------|-----|------|------|------|------|------------------------------|------------------------|
|        |                | 10%  | 20% | 30%  | 40%  | 50% | 60%  | 70%  | 80%  | 90%  |                              |                        |
| 1      | 1              | 1  | 1   | 1    | 1    | 1   | 1    | 1    | 1    | 1    | 78.0                         | 7                      |
| 2      | 1              | 1  | 1   | 1    | 1    | 1   | 1    | 1    | 1    | 1    | 79.7                         | 7                      |
| 3      | 1              | 1  | 1   | 1    | 1    | 1   | 1    | 1    | 1    | 1    | 80.7                         | 7                      |
| 4      | 1              | 1  | 1   | 1    | 1    | 1   | 1    | 1    | 1    | 1    | 81.7                         | 7                      |
| 5      | 1              | 1  | 1   | 1    | 1    | 1   | 1    | 1    | 1    | 1    | 82.4                         | 7                      |
| 6      | 1              | 1  | 1   | 1    | 1    | 1   | 1    | 1    | 1    | 1    | 83.4                         | 7                      |
| 7      | 1              | 1  | 1   | 1    | 1    | 1   | 1    | 1    | 1    | 1    | 84.4                         | 7                      |
| 8      | 1              | 1  | 1   | 1    | 1    | 1   | 1    | 1    | 1    | 1    | 85.4                         | 7                      |
| 9      | 1              | 1  | 1   | 1    | 1    | 1   | 1    | 1    | 1    | 1    | 86.4                         | 7                      |
| 10     | 1              | 1  | 1   | 1    | 1    | 1   | 1    | 1    | 1    | 1    | 87.4                         | 7                      |
| 11     | 1              | 1  | 1   | 1    | 1    | 1   | 1    | 1    | 1    | 1    | 88.4                         | 7                      |
| 12     | 1              | 1  | 1   | 1    | 1    | 1   | 1    | 1    | 1    | 1    | 89.4                         | 7                      |
| TOTALS |                | 110.0  | 10  | 97.1 | 20.2 | 16  | 71.3 | 57.4 | 27.4 | 10.5 | 84.4                         | 84                     |

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## RELATIVE HUMIDITY

STATION PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |      |      |      |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS |
|--------|-------------------|--|------|------|------|------|------|------|------|------|------------------------------|------------------------|
|        |                   | 10%  | 20%  | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                        |
| JAN    | 120.0             | 100.0  | 99.7 | 95.0 | 91.0 | 74.0 | 53.0 | 24.4 | 5.2  | 71.5 | 51                           |                        |
| FEB    | 120.0             | 100.0  | 99.7 | 98.1 | 94.0 | 77.4 | 60.4 | 20.5 | 7.1  | 71.6 | 51                           |                        |
| MAR    | 120.0             | 100.0  | 99.4 | 92.0 | 64.0 | 21.3 | 76.9 | 44.8 | 13.0 | 71.2 | 51                           |                        |
| APR    | 120.0             | 100.0  | 99.1 | 92.3 | 71.5 | 54.5 | 25.2 | 9.1  | 1.0  | 61.1 | 51                           |                        |
| MAY    | 120.0             | 100.0  | 97.7 | 93.2 | 72.4 | 67.7 | 73.2 | 14.3 | 4.8  | 1.7  | 4.4                          | 51                     |
| JUN    | 120.0             | 94.4   | 92.4 | 72.4 | 61.0 | 73.2 | 13.1 | 2.6  | 1.0  | 53.0 | 51                           |                        |
| JUL    | 120.0             | 90.7   | 88.2 | 76.0 | 78.4 | 32.0 | 17.0 | 5.0  | 0.7  | 59.5 | 51                           |                        |
| SEP    | 120.0             | 100.0  | 97.7 | 94.2 | 48.7 | 81.0 | 55.0 | 21.0 | 3.5  | 73.0 | 51                           |                        |
| TOTALS |                   | 100.0  | 94.7 | 97.3 | 90.1 | 51.0 | 64.2 | 47.3 | 17.6 | 4.2  | 65.5                         | 246                    |

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE - NORTH CAROLINA

## **RELATIVE HUMIDITY**

STATION NAME PERIOD MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| MONTH | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |     |     |     |     |     |     |     |     | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS |
|-------|----------------|--|-----|-----|-----|-----|-----|-----|-----|-----|------------------------------|------------------------|
|       |                | 10%  | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% |                              |                        |
| JAN   | 10             | 1.0  | 1.7 | 2.0 | 2.7 | 3.0 | 3.3 | 3.7 | 4.0 | 4.3 | 4.6                          | 24.3                   |
| JAN   | 15             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| JAN   | 20             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| JAN   | 25             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| JAN   | 30             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| FEB   | 10             | 1.0  | 1.7 | 2.0 | 2.7 | 3.0 | 3.3 | 3.7 | 4.0 | 4.3 | 4.6                          | 24.3                   |
| FEB   | 15             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| FEB   | 20             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| FEB   | 25             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| FEB   | 30             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| MAR   | 10             | 1.0  | 1.7 | 2.0 | 2.7 | 3.0 | 3.3 | 3.7 | 4.0 | 4.3 | 4.6                          | 24.3                   |
| MAR   | 15             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| MAR   | 20             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| MAR   | 25             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| MAR   | 30             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| APR   | 10             | 1.0  | 1.7 | 2.0 | 2.7 | 3.0 | 3.3 | 3.7 | 4.0 | 4.3 | 4.6                          | 24.3                   |
| APR   | 15             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| APR   | 20             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| APR   | 25             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| APR   | 30             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| MAY   | 10             | 1.0  | 1.7 | 2.0 | 2.7 | 3.0 | 3.3 | 3.7 | 4.0 | 4.3 | 4.6                          | 24.3                   |
| MAY   | 15             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| MAY   | 20             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| MAY   | 25             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| MAY   | 30             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| JUN   | 10             | 1.0  | 1.7 | 2.0 | 2.7 | 3.0 | 3.3 | 3.7 | 4.0 | 4.3 | 4.6                          | 24.3                   |
| JUN   | 15             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| JUN   | 20             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| JUN   | 25             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| JUN   | 30             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| JUL   | 10             | 1.0  | 1.7 | 2.0 | 2.7 | 3.0 | 3.3 | 3.7 | 4.0 | 4.3 | 4.6                          | 24.3                   |
| JUL   | 15             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| JUL   | 20             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| JUL   | 25             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| JUL   | 30             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| AUG   | 10             | 1.0  | 1.7 | 2.0 | 2.7 | 3.0 | 3.3 | 3.7 | 4.0 | 4.3 | 4.6                          | 24.3                   |
| AUG   | 15             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| AUG   | 20             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| AUG   | 25             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| AUG   | 30             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| SEPT  | 10             | 1.0  | 1.7 | 2.0 | 2.7 | 3.0 | 3.3 | 3.7 | 4.0 | 4.3 | 4.6                          | 24.3                   |
| SEPT  | 15             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| SEPT  | 20             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| SEPT  | 25             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| SEPT  | 30             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| OCT   | 10             | 1.0  | 1.7 | 2.0 | 2.7 | 3.0 | 3.3 | 3.7 | 4.0 | 4.3 | 4.6                          | 24.3                   |
| OCT   | 15             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| OCT   | 20             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| OCT   | 25             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| OCT   | 30             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| NOV   | 10             | 1.0  | 1.7 | 2.0 | 2.7 | 3.0 | 3.3 | 3.7 | 4.0 | 4.3 | 4.6                          | 24.3                   |
| NOV   | 15             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| NOV   | 20             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| NOV   | 25             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| NOV   | 30             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| DEC   | 10             | 1.0  | 1.7 | 2.0 | 2.7 | 3.0 | 3.3 | 3.7 | 4.0 | 4.3 | 4.6                          | 24.3                   |
| DEC   | 15             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| DEC   | 20             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| DEC   | 25             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |
| DEC   | 30             | 1.0  | 1.5 | 1.8 | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.5 | 3.8                          | 26.0                   |

OCEANAV-SMOS

**NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA**

## RELATIVE HUMIDITY

### STATISTICS

— STATION NAME

11

6

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS**

OCEANAV-SMOS

4  
1  
4  
NAVAL WEATHER SERVICE DETACHMENT  
AGENTSVILLE, NORTH CAROLINA

## RELATIVE HUMIDITY

STATION NAME: *[Redacted]* DATE: *[Redacted]* PAGE: *[Redacted]*

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>LST | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |      |      |      |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>HRS. |
|--------|--------------|--|------|------|------|------|------|------|------|------|------------------------------|-------------------------|
|        |              | 10%  | 20%  | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                         |
| JAN    | 0000-0600    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| JAN    | 0600-1200    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| JAN    | 1200-1800    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| JAN    | 1800-0000    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| FEB    | 0000-0600    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| FEB    | 0600-1200    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| FEB    | 1200-1800    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| FEB    | 1800-0000    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| MAR    | 0000-0600    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| MAR    | 0600-1200    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| MAR    | 1200-1800    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| MAR    | 1800-0000    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| APR    | 0000-0600    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| APR    | 0600-1200    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| APR    | 1200-1800    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| APR    | 1800-0000    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| MAY    | 0000-0600    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| MAY    | 0600-1200    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| MAY    | 1200-1800    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| MAY    | 1800-0000    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| JUN    | 0000-0600    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| JUN    | 0600-1200    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| JUN    | 1200-1800    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| JUN    | 1800-0000    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| JUL    | 0000-0600    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| JUL    | 0600-1200    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| JUL    | 1200-1800    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| JUL    | 1800-0000    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| AUG    | 0000-0600    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| AUG    | 0600-1200    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| AUG    | 1200-1800    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| AUG    | 1800-0000    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| SEPT   | 0000-0600    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| SEPT   | 0600-1200    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| SEPT   | 1200-1800    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| SEPT   | 1800-0000    | 71.4   | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4 | 71.4                         | 100                     |
| TOTALS |              |  |      |      |      |      |      |      |      |      |                              |                         |

OCEANAV-SMOS

**4** 14. AN ATTACHMENT, SEDETACHMENT  
AND TRANSFER CARDS.

## RELATIVE HUMIDITY

348

STATION NAME

5

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

OCEANAV-SMOS

4  
NAVAL WEATHER SERVICE DETACHMENT  
ATRUMBLE, NORTH CAROLINA

## RELATIVE HUMIDITY

STATION NUMBER: STATION NAME: PERIOD: MONTH:

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>LST | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |     |     |     |     |     |     |     |     | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>HOURS<br>IN<br>MONTH |
|--------|--------------|--|-----|-----|-----|-----|-----|-----|-----|-----|------------------------------|-------------------------------|
|        |              | 10%  | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% |                              |                               |
| JAN    | 0000-0600    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| JAN    | 0600-1200    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| JAN    | 1200-1800    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| JAN    | 1800-0000    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| FEB    | 0000-0600    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| FEB    | 0600-1200    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| FEB    | 1200-1800    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| FEB    | 1800-0000    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| MAR    | 0000-0600    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| MAR    | 0600-1200    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| MAR    | 1200-1800    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| MAR    | 1800-0000    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| APR    | 0000-0600    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| APR    | 0600-1200    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| APR    | 1200-1800    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| APR    | 1800-0000    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| MAY    | 0000-0600    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| MAY    | 0600-1200    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| MAY    | 1200-1800    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| MAY    | 1800-0000    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| JUN    | 0000-0600    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| JUN    | 0600-1200    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| JUN    | 1200-1800    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| JUN    | 1800-0000    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| JUL    | 0000-0600    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| JUL    | 0600-1200    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| JUL    | 1200-1800    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| JUL    | 1800-0000    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| AUG    | 0000-0600    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| AUG    | 0600-1200    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| AUG    | 1200-1800    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| AUG    | 1800-0000    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| SEP    | 0000-0600    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| SEP    | 0600-1200    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| SEP    | 1200-1800    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| SEP    | 1800-0000    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| OCT    | 0000-0600    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| OCT    | 0600-1200    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| OCT    | 1200-1800    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| OCT    | 1800-0000    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| NOV    | 0000-0600    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| NOV    | 0600-1200    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| NOV    | 1200-1800    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| NOV    | 1800-0000    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| DEC    | 0000-0600    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| DEC    | 0600-1200    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| DEC    | 1200-1800    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| DEC    | 1800-0000    | 100  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100                          | 100                           |
| TOTALS |              |  |     |     |     |     |     |     |     |     |                              |                               |

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ALBEMARLE, NORTH CAROLINA

## **RELATIVE HUMIDITY**

OCEANAV-SMOS

4  
NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## RELATIVE HUMIDITY

STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>LST | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |      |      |      |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO OF<br>OBS |
|--------|--------------|--|------|------|------|------|------|------|------|------|------------------------------|-----------------------|
|        |              | 10%  | 20%  | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                       |
| JAN    | 1            | 15.1   | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1                         | 15.1                  |
| FEB    | 1            | 15.1   | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1                         | 15.1                  |
| MAR    | 1            | 15.1   | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1                         | 15.1                  |
| APR    | 1            | 15.1   | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1                         | 15.1                  |
| MAY    | 1            | 15.1   | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1                         | 15.1                  |
| JUN    | 1            | 15.1   | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1                         | 15.1                  |
| JUL    | 1            | 15.1   | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1                         | 15.1                  |
| SEP    | 1            | 15.1   | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1                         | 15.1                  |
| OCT    | 1            | 15.1   | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1                         | 15.1                  |
| NOV    | 1            | 15.1   | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1                         | 15.1                  |
| DEC    | 1            | 15.1   | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1                         | 15.1                  |
| TOTALS |              | 15.1   | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1                         | 15.1                  |

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

**RELATIVE HUMIDITY**

4

STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |     |     |     |     |     |     |     |     | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO OF<br>OBS |
|--------|----------------|--|-----|-----|-----|-----|-----|-----|-----|-----|------------------------------|-----------------------|
|        |                | 10%  | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% |                              |                       |
| JAN    | 1              | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 70.0                         | 100                   |
| FEB    | 1              | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 74.0                         | 100                   |
| MAR    | 1              | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 73.0                         | 100                   |
| APR    | 1              | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 73.0                         | 100                   |
| MAY    | 1              | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 73.0                         | 100                   |
| JUN    | 1              | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 73.0                         | 100                   |
| JUL    | 1              | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 73.0                         | 100                   |
| AUG    | 1              | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 73.0                         | 100                   |
| SEP    | 1              | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 73.0                         | 100                   |
| OCT    | 1              | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 73.0                         | 100                   |
| NOV    | 1              | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 73.0                         | 100                   |
| DEC    | 1              | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 73.0                         | 100                   |
| TOTALS |                | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 73.0                         | 100                   |

OCEANAV-SMOS

**PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION**

| TEMPERATURE | WIND DIRECTION |      |      |     |      |      |      |      |      |      |       |       | TOTAL |
|-------------|----------------|------|------|-----|------|------|------|------|------|------|-------|-------|-------|
|             | 0°             | 30°  | 60°  | 90° | 120° | 150° | 180° | 210° | 240° | 270° | 300°  | FREQ. |       |
| 10.0        | 1.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 1.0   |
| 10.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 11.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 11.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 12.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 12.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 13.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 13.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 14.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 14.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 15.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 15.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 16.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 16.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 17.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 17.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 18.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 18.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 19.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 19.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 20.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 20.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 21.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 21.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 22.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 22.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 23.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 23.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 24.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 24.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 25.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 25.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 26.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 26.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 27.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 27.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 28.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 28.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 29.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 29.5        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 30.0        | 0.0            | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| TOTALS      | 11.0           | 14.5 | 16.3 | 9.3 | 7.1  | 9.7  | 13.3 | 11.5 | 7.4  | 24.1 | 133.0 |       |       |

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

JANUARY 1971 - PLACE NO. 1271      EX-ROADS

| WIND DIRECTION |              |            |          |             |           |           |           |             |             |             |      |                |         |
|----------------|--------------|------------|----------|-------------|-----------|-----------|-----------|-------------|-------------|-------------|------|----------------|---------|
|                | NNE<br>A NNE | NE<br>N NE | E<br>N E | ENE<br>E NE | EE<br>E E | SE<br>S E | SS<br>S S | SSW<br>S SW | WSW<br>W SW | WNW<br>W NW | CALM | TOTAL<br>FREQ. | % TOTAL |
| 1              | 2.1          | 7.1        | 7.1      | 35.7        | 3.6       | 3.6       | 3.6       | 3.6         | 3.6         | 3.6         | 3.6  | 1.2            |         |
| 2              | 1.4          | 11.7       | 14.5     | 1.4         | 1.4       | 1.4       | 1.4       | 1.4         | 1.4         | 1.4         | 1.4  | 2.6            |         |
| 3              | 5.3          | 7.9        | 2.7      | 12.6        | 16.9      | 29.8      | 11.1      | 3.0         | 5.7         | 26.6        | 11.3 | 26.6           |         |
| 4              | 1.1          | 1.3        | 1.3      | 6.3         | 7.7       | 21.1      | 2.4       | 6.1         | 7.1         | 21.1        | 1.1  | 21.1           |         |
| 5              | 1.5          | 2.4        | 7.3      | 2.3         | 2.3       | 3.9       | 17.2      | 11.1        | 4.7         | 14.1        | 1.5  | 14.1           |         |
| 6              | 3.1          | 6.7        | 1.1      | 1.1         | 1.1       | 1.1       | 1.1       | 1.1         | 1.1         | 1.1         | 1.1  | 1.4            |         |
| 7              | 49.3         | 28.4       |          |             |           |           |           |             |             |             | 5.5  | 8.7            |         |
| 8              | 1.3          | 57.1       | 14.3     |             |           |           |           |             |             |             | 1.3  | 7.7            |         |
| 9              |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 10             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 11             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 12             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 13             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 14             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 15             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 16             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 17             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 18             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 19             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 20             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 21             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 22             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 23             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 24             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 25             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 26             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 27             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 28             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 29             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 30             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| 31             |              |            |          |             |           |           |           |             |             |             |      |                |         |
| TOTALS         | 11.3         | 14.3       | 1.1      | 7.8         | 9.0       | 17.4      | 13.1      | 4.3         | 225         | 11.0        |      |                |         |

**PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION**

37-42-197-27-CR-15-1979

- 1 -

#### WIND DIRECTION

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

DATE: 1979-01-01    YEAR: 1979    MONTH: JANUARY

| TIME     | WIND DIRECTION |             |          |             |            |             |            |             |      |                |       |  | OF<br>TOTAL |
|----------|----------------|-------------|----------|-------------|------------|-------------|------------|-------------|------|----------------|-------|--|-------------|
|          | NNW<br>& N     | NNE<br>& NE | E<br>& E | ESW<br>& SE | SSE<br>& S | SSW<br>& SW | WSW<br>& W | WNW<br>& NW | CALM | TOTAL<br>FREQ. |       |  |             |
| 00 TO 01 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 01 TO 02 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 02 TO 03 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 03 TO 04 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 04 TO 05 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 05 TO 06 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 06 TO 07 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 07 TO 08 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 08 TO 09 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 09 TO 10 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 10 TO 11 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 11 TO 12 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 12 TO 13 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 13 TO 14 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 14 TO 15 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 15 TO 16 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 16 TO 17 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 17 TO 18 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 18 TO 19 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 19 TO 20 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 20 TO 21 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 21 TO 22 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 22 TO 23 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 23 TO 24 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 24 TO 25 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 25 TO 26 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 26 TO 27 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 27 TO 28 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 28 TO 29 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 29 TO 30 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 30 TO 31 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| 31 TO 01 |                |             |          |             |            |             |            |             |      |                |       |  |             |
| TOTALS   | 1.7            | 6.2         | 17.8     | 6.3         | 6.5        | 7.0         | 25.9       | 14.9        | 4.3  | 24.7           | 100.0 |  |             |

4  
PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

31 4 1977 - 7 CEMTE 1979

YEAR MONTH DAY

STATION

WIND DIRECTION

| TEMP.      | NNW & N | NNE  | ENE  | ENE  | NE   | NE   | NE   | SW   | SSE  | SSW  | SW    | WNW & NW | CALM | TOTAL FREQ. | % OF TOTAL |
|------------|---------|------|------|------|------|------|------|------|------|------|-------|----------|------|-------------|------------|
| 12         |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 17 TO 12   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 12 TO 11   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 10 TO 11   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 102 TO 106 |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 97 TO 101  |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 92 TO 96   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 87 TO 91   | 0.7     | 0.7  | 6.0  | 36.7 |      |      |      |      |      |      |       |          |      | 1           | 0.6        |
| 82 TO 86   | 1.0     | 6.1  | 1.1  | 4.0  | 16.7 | 6.1  | 14.2 | 4.5  |      |      |       |          |      | 6           | 5.6        |
| 77 TO 81   | 4.3     | 2.6  | 1.5  | 36.2 | 6.6  | 6.4  | 17.0 | 2.5  | 1.1  | 1.1  | 1.1   |          |      | 14          | 7.0        |
| 72 TO 76   | 1.0     | 6.0  | 2.7  | 18.4 | 9.2  | 8.2  | 7.9  | 14.0 | 1.0  | 1.0  | 2.7   |          |      | 7           | 0.7        |
| 67 TO 71   | 1.0     | 3.7  | 8.1  | 1.0  | 6.3  | 7.3  | 33.3 | 1.3  | 2.0  | 2.0  | 4     |          |      | 14.0        |            |
| 62 TO 66   | 3.0     | 2.0  | 3.2  | 6.3  | 11.6 | 21.0 | 37.0 | 9.4  | 3.0  | 3.0  | 6.4   |          |      | 24          | 27.0       |
| 57 TO 61   | 0.0     | 3.0  | 10.6 | 5.3  | 6.7  | 14.7 | 26.0 | 22.7 | 7.1  | 7.1  | 24    |          |      | 49          |            |
| 52 TO 56   | 12.0    | 10.0 | 25.4 | 4.2  | 3.5  | 3.5  | 7.0  | 21.3 | 11.0 | 11.0 | 17    |          |      | 11.0        |            |
| 47 TO 51   | 11.5    | 14.3 | 7.0  | 1.2  |      |      |      | 2.0  | 2.0  | 14.3 | 11.0  |          |      | 4           | 0.6        |
| 42 TO 46   | 0.0     |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 37 TO 41   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 32 TO 36   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 27 TO 31   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 22 TO 26   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 17 TO 21   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 12 TO 16   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 7 TO 11    |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 2 TO 6     |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| -3 TO 1    |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 8 TO 4     |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 13 TO 9    |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 18 TO 14   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 23 TO 19   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 28 TO 24   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 33 TO 29   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 38 TO 34   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 43 TO 39   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 48 TO 44   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 53 TO 49   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 58 TO 54   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| 63 TO 59   |         |      |      |      |      |      |      |      |      |      |       |          |      |             |            |
| TOTALS     | 3.3     | 4.0  | 10.9 | 9.8  | 8.5  | 14.5 | 27.0 | 14.1 | 5.1  | 24.0 | 100.0 |          |      |             |            |

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

JANUARY 1971 - DECEMBER 1979

JAN.

| TEMP       | WIND DIRECTION |               |               |                |              |                  |             |                  |      |      |       |  | TOTAL<br>FREQ. | PF<br>TOTAL |
|------------|----------------|---------------|---------------|----------------|--------------|------------------|-------------|------------------|------|------|-------|--|----------------|-------------|
|            | N.W.<br>8-4    | N.N.E.<br>4-8 | E.N.E.<br>8-4 | E.S.E.<br>4-SE | S.S.E.<br>SE | S.S.W.<br>S.S.W. | W.W.<br>8-4 | W.N.W.<br>4-N.W. | CALM |      |       |  |                |             |
| 40 TO 44   |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 45 TO 49   |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 50 TO 54   |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 55 TO 59   |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 60 TO 64   |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 65 TO 69   |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 70 TO 74   |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 75 TO 79   |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 80 TO 84   |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 85 TO 89   |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 90 TO 94   |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 95 TO 99   |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 100 TO 104 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 105 TO 109 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 110 TO 114 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 115 TO 119 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 120 TO 124 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 125 TO 129 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 130 TO 134 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 135 TO 139 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 140 TO 144 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 145 TO 149 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 150 TO 154 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 155 TO 159 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 160 TO 164 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 165 TO 169 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 170 TO 174 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 175 TO 179 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 180 TO 184 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 185 TO 189 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 190 TO 194 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| 195 TO 199 |                |               |               |                |              |                  |             |                  |      |      |       |  |                |             |
| TOTALS     | 3.             | 2.9           | 3.8           | 11.3           | 12.5         | 13.6             | 31.1        | 9.6              | 5.9  | 24.0 | 100.0 |  |                |             |

NAVWEASERVCOM

**PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION**

JULY 1971 - DECEMBER 1975

JULY

| TEMP.     | WIND DIRECTION |             |            |             |            |             |            |             |      |                | % OF<br>TOTAL |
|-----------|----------------|-------------|------------|-------------|------------|-------------|------------|-------------|------|----------------|---------------|
|           | NNW<br>& N     | NNE<br>& NE | ENE<br>& E | ESS<br>& SE | SSE<br>& S | SSW<br>& SW | WSW<br>& W | WNW<br>& NW | CALM | TOTAL<br>FREQ. |               |
| 22        |                |             |            |             |            |             |            |             |      |                |               |
| 23 TO 24  |                |             |            |             |            |             |            |             |      |                |               |
| 24 TO 25  |                |             |            |             |            |             |            |             |      |                |               |
| 25 TO 26  |                |             |            |             |            |             |            |             |      |                |               |
| 26 TO 27  |                |             |            |             |            |             |            |             |      |                |               |
| 27 TO 28  |                |             |            |             |            |             |            |             |      |                |               |
| 28 TO 29  |                |             |            |             |            |             |            |             |      |                |               |
| 29 TO 30  |                |             |            |             |            |             |            |             |      |                |               |
| 30 TO 31  |                |             |            |             |            |             |            |             |      |                |               |
| 31 TO 32  |                |             |            |             |            |             |            |             |      |                |               |
| 32 TO 33  |                |             |            |             |            |             |            |             |      |                |               |
| 33 TO 34  |                |             |            |             |            |             |            |             |      |                |               |
| 34 TO 35  |                |             |            |             |            |             |            |             |      |                |               |
| 35 TO 36  |                |             |            |             |            |             |            |             |      |                |               |
| 36 TO 37  |                |             |            |             |            |             |            |             |      |                |               |
| 37 TO 38  |                |             |            |             |            |             |            |             |      |                |               |
| 38 TO 39  |                |             |            |             |            |             |            |             |      |                |               |
| 39 TO 40  |                |             |            |             |            |             |            |             |      |                |               |
| 40 TO 41  |                |             |            |             |            |             |            |             |      |                |               |
| 41 TO 42  |                |             |            |             |            |             |            |             |      |                |               |
| 42 TO 43  |                |             |            |             |            |             |            |             |      |                |               |
| 43 TO 44  |                |             |            |             |            |             |            |             |      |                |               |
| 44 TO 45  |                |             |            |             |            |             |            |             |      |                |               |
| 45 TO 46  |                |             |            |             |            |             |            |             |      |                |               |
| 46 TO 47  |                |             |            |             |            |             |            |             |      |                |               |
| 47 TO 48  |                |             |            |             |            |             |            |             |      |                |               |
| 48 TO 49  |                |             |            |             |            |             |            |             |      |                |               |
| 49 TO 50  |                |             |            |             |            |             |            |             |      |                |               |
| 50 TO 51  |                |             |            |             |            |             |            |             |      |                |               |
| 51 TO 52  |                |             |            |             |            |             |            |             |      |                |               |
| 52 TO 53  |                |             |            |             |            |             |            |             |      |                |               |
| 53 TO 54  |                |             |            |             |            |             |            |             |      |                |               |
| 54 TO 55  |                |             |            |             |            |             |            |             |      |                |               |
| 55 TO 56  |                |             |            |             |            |             |            |             |      |                |               |
| 56 TO 57  |                |             |            |             |            |             |            |             |      |                |               |
| 57 TO 58  |                |             |            |             |            |             |            |             |      |                |               |
| 58 TO 59  |                |             |            |             |            |             |            |             |      |                |               |
| 59 TO 60  |                |             |            |             |            |             |            |             |      |                |               |
| 60 TO 61  |                |             |            |             |            |             |            |             |      |                |               |
| 61 TO 62  |                |             |            |             |            |             |            |             |      |                |               |
| 62 TO 63  |                |             |            |             |            |             |            |             |      |                |               |
| 63 TO 64  |                |             |            |             |            |             |            |             |      |                |               |
| 64 TO 65  |                |             |            |             |            |             |            |             |      |                |               |
| 65 TO 66  |                |             |            |             |            |             |            |             |      |                |               |
| 66 TO 67  |                |             |            |             |            |             |            |             |      |                |               |
| 67 TO 68  |                |             |            |             |            |             |            |             |      |                |               |
| 68 TO 69  |                |             |            |             |            |             |            |             |      |                |               |
| 69 TO 70  |                |             |            |             |            |             |            |             |      |                |               |
| 70 TO 71  |                |             |            |             |            |             |            |             |      |                |               |
| 71 TO 72  |                |             |            |             |            |             |            |             |      |                |               |
| 72 TO 73  |                |             |            |             |            |             |            |             |      |                |               |
| 73 TO 74  |                |             |            |             |            |             |            |             |      |                |               |
| 74 TO 75  |                |             |            |             |            |             |            |             |      |                |               |
| 75 TO 76  |                |             |            |             |            |             |            |             |      |                |               |
| 76 TO 77  |                |             |            |             |            |             |            |             |      |                |               |
| 77 TO 78  |                |             |            |             |            |             |            |             |      |                |               |
| 78 TO 79  |                |             |            |             |            |             |            |             |      |                |               |
| 79 TO 80  |                |             |            |             |            |             |            |             |      |                |               |
| 80 TO 81  |                |             |            |             |            |             |            |             |      |                |               |
| 81 TO 82  |                |             |            |             |            |             |            |             |      |                |               |
| 82 TO 83  |                |             |            |             |            |             |            |             |      |                |               |
| 83 TO 84  |                |             |            |             |            |             |            |             |      |                |               |
| 84 TO 85  |                |             |            |             |            |             |            |             |      |                |               |
| 85 TO 86  |                |             |            |             |            |             |            |             |      |                |               |
| 86 TO 87  |                |             |            |             |            |             |            |             |      |                |               |
| 87 TO 88  |                |             |            |             |            |             |            |             |      |                |               |
| 88 TO 89  |                |             |            |             |            |             |            |             |      |                |               |
| 89 TO 90  |                |             |            |             |            |             |            |             |      |                |               |
| 90 TO 91  |                |             |            |             |            |             |            |             |      |                |               |
| 91 TO 92  |                |             |            |             |            |             |            |             |      |                |               |
| 92 TO 93  |                |             |            |             |            |             |            |             |      |                |               |
| 93 TO 94  |                |             |            |             |            |             |            |             |      |                |               |
| 94 TO 95  |                |             |            |             |            |             |            |             |      |                |               |
| 95 TO 96  |                |             |            |             |            |             |            |             |      |                |               |
| 96 TO 97  |                |             |            |             |            |             |            |             |      |                |               |
| 97 TO 98  |                |             |            |             |            |             |            |             |      |                |               |
| 98 TO 99  |                |             |            |             |            |             |            |             |      |                |               |
| 99 TO 100 |                |             |            |             |            |             |            |             |      |                |               |
| TOTALS    | 4.0            | 2.4         | 1.3        | 13.4        | 11.7       | 9.1         | 29.4       | 12.0        | 7.2  | 28.8           | 100.0         |

E  
4

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

JULY 1977 - DEC 31 1979

STATION

STATION NAME

WIND DIRECTION

JULY

| TEMP.      | NNW<br>& N | NNI<br>& NE | ENE<br>& E | ESE<br>& SE | SSF<br>& S | SSW<br>& SW | WW<br>& W | WNW<br>& NW | TALW | TOTAL<br>FREQ. | %<br>TOTAL |
|------------|------------|-------------|------------|-------------|------------|-------------|-----------|-------------|------|----------------|------------|
| 122        |            |             |            |             |            |             |           |             |      |                |            |
| 117 TO 121 |            |             |            |             |            |             |           |             |      |                |            |
| 112 TO 116 |            |             |            |             |            |             |           |             |      |                |            |
| 107 TO 111 |            |             |            |             |            |             |           |             |      |                |            |
| 102 TO 106 |            |             |            |             |            |             |           |             |      |                |            |
| 97 TO 101  | .0         | .0          | .0         | .0          |            |             | .0        |             |      |                |            |
| 92 TO 96   | .7         | 3.2         | 7.9        | 28.6        | 24.9       | 7.2         | 5.3       | 12.7        |      | 7              | 2.5        |
| 87 TO 91   | 2.         | 6.9         | 3.4        | 14.5        | 27.4       | 7.6         | 3.3       | 9.7         | 1.0  | 145            | 5.5        |
| 82 TO 86   | 1.         | 3.5         | 5.7        | 17.6        | 9.2        | 1.3         | 37.5      | 1.6         | 1.1  | 261            | 10.5       |
| 77 TO 81   | .7         | 5.2         | 1.1        | 10.3        | 1.6        | 14.7        | 37.0      | 11.         | 2.5  | 475            | 10.7       |
| 72 TO 76   | .7         | 2.3         | 4.0        | 8.7         | 16.6       | 12.7        | 29.6      | 13.8        | 7.1  | 657            | 24.8       |
| 67 TO 71   | .7         | 4.3         | 13.1       | 8.4         | 9.9        | 9.          | 1.9       | 14.         | 16.7 | 557            | 22.5       |
| 62 TO 66   | 1.1        | 7.4         | 2.0        | 5.2         | 4.3        | 3.5         | 7.7       | 18.3        | 13.5 | 73             | 2.7        |
| 57 TO 61   | 2.0        | 2.5         | 3.7        | 2.7         | 2.5        | 2.5         | 2.5       | 13.0        | 16.1 | 72             | 1.7        |
| 52 TO 56   | 2.0        | 28.6        |            |             |            |             |           |             |      | 2              | 0.2        |
| 47 TO 51   |            |             |            |             |            |             |           |             |      |                |            |
| 42 TO 46   |            |             |            |             |            |             |           |             |      |                |            |
| 37 TO 41   |            |             |            |             |            |             |           |             |      |                |            |
| 32 TO 36   |            |             |            |             |            |             |           |             |      |                |            |
| 27 TO 31   |            |             |            |             |            |             |           |             |      |                |            |
| 22 TO 26   |            |             |            |             |            |             |           |             |      |                |            |
| 17 TO 21   |            |             |            |             |            |             |           |             |      |                |            |
| 12 TO 16   |            |             |            |             |            |             |           |             |      |                |            |
| 7 TO 11    |            |             |            |             |            |             |           |             |      |                |            |
| 2 TO 6     |            |             |            |             |            |             |           |             |      |                |            |
| -1 TO 4    |            |             |            |             |            |             |           |             |      |                |            |
| 13 TO 17   |            |             |            |             |            |             |           |             |      |                |            |
| 18 TO 22   |            |             |            |             |            |             |           |             |      |                |            |
| 23 TO 27   |            |             |            |             |            |             |           |             |      |                |            |
| 28 TO 32   |            |             |            |             |            |             |           |             |      |                |            |
| 33 TO 37   |            |             |            |             |            |             |           |             |      |                |            |
| 38 TO 42   |            |             |            |             |            |             |           |             |      |                |            |
| 43 TO 47   |            |             |            |             |            |             |           |             |      |                |            |
| 48 TO 52   |            |             |            |             |            |             |           |             |      |                |            |
| 53 TO 57   |            |             |            |             |            |             |           |             |      |                |            |
| 58 TO 62   |            |             |            |             |            |             |           |             |      |                |            |
| 63 TO 67   |            |             |            |             |            |             |           |             |      |                |            |
| 68 TO 72   |            |             |            |             |            |             |           |             |      |                |            |
| 73 TO 77   |            |             |            |             |            |             |           |             |      |                |            |
| 78 TO 82   |            |             |            |             |            |             |           |             |      |                |            |
| 83 TO 87   |            |             |            |             |            |             |           |             |      |                |            |
| 88 TO 92   |            |             |            |             |            |             |           |             |      |                |            |
| TOTALS     | 5.         | 4.4         | 10.0       | 9.6         | 12.1       | 10.1        | 26.6      | 13.4        | .1   | 247            | 100.0      |

NAVWEASERVCOM

4

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

WIND DIRECTION

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CHART NO. 1000 END-ON AIR TEMPERATURE

WIND DIRECTION

NAVWEA FORM 10

4

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

WIND DIRECTION

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

AIR DIRECTION

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**PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION**

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STATION

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20-A-197-B-CFM-E-1978

1

#### WIND DIRECTION

| TEMPS.     | WIND DIRECTION |             |            |             |            |             |            |             | TOTAL<br>FREQ. | % OF<br>TOTAL |
|------------|----------------|-------------|------------|-------------|------------|-------------|------------|-------------|----------------|---------------|
|            | NNW<br>& N     | NNE<br>& NE | ENE<br>& E | ESE<br>& SE | SSE<br>& S | SSW<br>& SW | WSW<br>& W | NNW<br>& NW | CALM           |               |
| 122        |                |             |            |             |            |             |            |             |                |               |
| 127 TO 131 |                |             |            |             |            |             |            |             |                |               |
| 131 TO 135 |                |             |            |             |            |             |            |             |                |               |
| 135 TO 139 |                |             |            |             |            |             |            |             |                |               |
| 139 TO 143 | • 6            | 20.6        |            | 7.3         |            |             | 4 .6       |             |                |               |
| 143 TO 147 | • 1            |             | • 1        | 22.7        | 15.2       | 9.1         | 22.7       | 9.1         |                | 2 .1          |
| 147 TO 151 | 2 .1           | 2.7         | 4.7        | 28.7        | 32.7       | 4.7         | 1 .7       | 15.3        |                | 1 .5          |
| 151 TO 155 | 1 .1           | 3.2         | 5.5        | 29.7        | 22.1       | 5.0         | 22.1       | 8.7         | 1.1            | 43° 1.5       |
| 155 TO 159 | 1 .3           | 3.2         | 7.2        | 21.6        | 12.9       | 9.3         | 27.7       | 9.6         | .5             | 917 3.1       |
| 159 TO 163 | • 0            | 4.5         | 6.0        | 19.1        | 10.4       | 11.2        | 33.0       | 1.9         | 2.4            | 1658 5.6      |
| 163 TO 167 | • 3            | 3.7         | 7.8        | 14.6        | 13.6       | 11.5        | 3 .2       | 9.7         | 4.1            | 333 1.4       |
| 167 TO 171 | • 3            | 4.0         | 3.9        | 12.5        | 12.2       | 12.0        | 27.2       | 1.7         | 7.4            | 3942 12.5     |
| 171 TO 175 | • 1            | 6.0         | 11.4       | 12.5        | 1 .6       | 12.2        | 24.8       | 1.6         | 6.1            | 4059 17.7     |
| 175 TO 179 | 6 .            | 7.0         | 15.6       | 10.3        | 5.3        | 11.1        | 22.6       | 14.5        | 5.4            | 5567 19.1     |
| 179 TO 183 | 11.2           | 12.6        | 17.8       | 5.2         | 4.3        | 4.6         | 14 .       | 1.1         | 3.3            | 4224 14.5     |
| 183 TO 187 | 7.6            | 22.7        | 7.8        | 8 .         | 1.2        | .4          | 2.5        | 12.2        | 1 .7           | 254 5.7       |
| 187 TO 191 | 7.2            | 32.5        | 76.5       | 1.7         |            |             | .3         | 3.3         | 1.4            | 1266 4.3      |
| 191 TO 195 | 14 .           | 30.1        | 3.5        | •           |            |             | .3         | •           | 3.3            | 3.4 1.0       |
| 195 TO 199 | 1.3            | 42.6        | 2.1        |             |            |             |            |             | 1 .            | 5.5 .0        |
| 199 TO 203 | 14.3           | 5.7         |            |             |            |             |            |             |                |               |
| 203 TO 207 |                | 20.0        |            |             |            |             |            |             |                |               |
| 207 TO 211 |                |             |            |             |            |             |            |             |                |               |
| 211 TO 215 |                |             |            |             |            |             |            |             |                |               |
| 215 TO 219 |                |             |            |             |            |             |            |             |                |               |
| 219 TO 223 |                |             |            |             |            |             |            |             |                |               |
| 223 TO 227 |                |             |            |             |            |             |            |             |                |               |
| 227 TO 231 |                |             |            |             |            |             |            |             |                |               |
| 231 TO 235 |                |             |            |             |            |             |            |             |                |               |
| 235 TO 239 |                |             |            |             |            |             |            |             |                |               |
| 239 TO 243 |                |             |            |             |            |             |            |             |                |               |
| 243 TO 247 |                |             |            |             |            |             |            |             |                |               |
| 247 TO 251 |                |             |            |             |            |             |            |             |                |               |
| 251 TO 255 |                |             |            |             |            |             |            |             |                |               |
| 255 TO 259 |                |             |            |             |            |             |            |             |                |               |
| 259 TO 263 |                |             |            |             |            |             |            |             |                |               |
| 263 TO 267 |                |             |            |             |            |             |            |             |                |               |
| 267 TO 271 |                |             |            |             |            |             |            |             |                |               |
| 271 TO 275 |                |             |            |             |            |             |            |             |                |               |
| 275 TO 279 |                |             |            |             |            |             |            |             |                |               |
| 279 TO 283 |                |             |            |             |            |             |            |             |                |               |
| 283 TO 287 |                |             |            |             |            |             |            |             |                |               |
| 287 TO 291 |                |             |            |             |            |             |            |             |                |               |
| 291 TO 295 |                |             |            |             |            |             |            |             |                |               |
| 295 TO 299 |                |             |            |             |            |             |            |             |                |               |
| 299 TO 303 |                |             |            |             |            |             |            |             |                |               |
| 303 TO 307 |                |             |            |             |            |             |            |             |                |               |
| 307 TO 311 |                |             |            |             |            |             |            |             |                |               |
| 311 TO 315 |                |             |            |             |            |             |            |             |                |               |
| 315 TO 319 |                |             |            |             |            |             |            |             |                |               |
| 319 TO 323 |                |             |            |             |            |             |            |             |                |               |
| 323 TO 327 |                |             |            |             |            |             |            |             |                |               |
| 327 TO 331 |                |             |            |             |            |             |            |             |                |               |
| 331 TO 335 |                |             |            |             |            |             |            |             |                |               |
| 335 TO 339 |                |             |            |             |            |             |            |             |                |               |
| 339 TO 343 |                |             |            |             |            |             |            |             |                |               |
| 343 TO 347 |                |             |            |             |            |             |            |             |                |               |
| 347 TO 351 |                |             |            |             |            |             |            |             |                |               |
| 351 TO 355 |                |             |            |             |            |             |            |             |                |               |
| 355 TO 359 |                |             |            |             |            |             |            |             |                |               |
| 359 TO 363 |                |             |            |             |            |             |            |             |                |               |
| 363 TO 367 |                |             |            |             |            |             |            |             |                |               |
| 367 TO 371 |                |             |            |             |            |             |            |             |                |               |
| 371 TO 375 |                |             |            |             |            |             |            |             |                |               |
| 375 TO 379 |                |             |            |             |            |             |            |             |                |               |
| 379 TO 383 |                |             |            |             |            |             |            |             |                |               |
| 383 TO 387 |                |             |            |             |            |             |            |             |                |               |
| 387 TO 391 |                |             |            |             |            |             |            |             |                |               |
| 391 TO 395 |                |             |            |             |            |             |            |             |                |               |
| 395 TO 399 |                |             |            |             |            |             |            |             |                |               |
| 399 TO 403 |                |             |            |             |            |             |            |             |                |               |
| 403 TO 407 |                |             |            |             |            |             |            |             |                |               |
| 407 TO 411 |                |             |            |             |            |             |            |             |                |               |
| 411 TO 415 |                |             |            |             |            |             |            |             |                |               |
| 415 TO 419 |                |             |            |             |            |             |            |             |                |               |
| 419 TO 423 |                |             |            |             |            |             |            |             |                |               |
| 423 TO 427 |                |             |            |             |            |             |            |             |                |               |
| 427 TO 431 |                |             |            |             |            |             |            |             |                |               |
| 431 TO 435 |                |             |            |             |            |             |            |             |                |               |
| 435 TO 439 |                |             |            |             |            |             |            |             |                |               |
| 439 TO 443 |                |             |            |             |            |             |            |             |                |               |
| 443 TO 447 |                |             |            |             |            |             |            |             |                |               |
| 447 TO 451 |                |             |            |             |            |             |            |             |                |               |
| 451 TO 455 |                |             |            |             |            |             |            |             |                |               |
| 455 TO 459 |                |             |            |             |            |             |            |             |                |               |
| 459 TO 463 |                |             |            |             |            |             |            |             |                |               |
| 463 TO 467 |                |             |            |             |            |             |            |             |                |               |
| 467 TO 471 |                |             |            |             |            |             |            |             |                |               |
| 471 TO 475 |                |             |            |             |            |             |            |             |                |               |
| 475 TO 479 |                |             |            |             |            |             |            |             |                |               |
| 479 TO 483 |                |             |            |             |            |             |            |             |                |               |
| 483 TO 487 |                |             |            |             |            |             |            |             |                |               |
| 487 TO 491 |                |             |            |             |            |             |            |             |                |               |
| 491 TO 495 |                |             |            |             |            |             |            |             |                |               |
| 495 TO 499 |                |             |            |             |            |             |            |             |                |               |
| 499 TO 503 |                |             |            |             |            |             |            |             |                |               |
| 503 TO 507 |                |             |            |             |            |             |            |             |                |               |
| 507 TO 511 |                |             |            |             |            |             |            |             |                |               |
| 511 TO 515 |                |             |            |             |            |             |            |             |                |               |
| 515 TO 519 |                |             |            |             |            |             |            |             |                |               |
| 519 TO 523 |                |             |            |             |            |             |            |             |                |               |
| 523 TO 527 |                |             |            |             |            |             |            |             |                |               |
| 527 TO 531 |                |             |            |             |            |             |            |             |                |               |
| 531 TO 535 |                |             |            |             |            |             |            |             |                |               |
| 535 TO 539 |                |             |            |             |            |             |            |             |                |               |
| 539 TO 543 |                |             |            |             |            |             |            |             |                |               |
| 543 TO 547 |                |             |            |             |            |             |            |             |                |               |
| 547 TO 551 |                |             |            |             |            |             |            |             |                |               |
| 551 TO 555 |                |             |            |             |            |             |            |             |                |               |
| 555 TO 559 |                |             |            |             |            |             |            |             |                |               |
| 559 TO 563 |                |             |            |             |            |             |            |             |                |               |
| 563 TO 567 |                |             |            |             |            |             |            |             |                |               |
| 567 TO 571 |                |             |            |             |            |             |            |             |                |               |
| 571 TO 575 |                |             |            |             |            |             |            |             |                |               |
| 575 TO 579 |                |             |            |             |            |             |            |             |                |               |
| 579 TO 583 |                |             |            |             |            |             |            |             |                |               |
| 583 TO 587 |                |             |            |             |            |             |            |             |                |               |
| 587 TO 591 |                |             |            |             |            |             |            |             |                |               |
| 591 TO 595 |                |             |            |             |            |             |            |             |                |               |
| 595 TO 599 |                |             |            |             |            |             |            |             |                |               |
| 599 TO 603 |                |             |            |             |            |             |            |             |                |               |
| 603 TO 607 |                |             |            |             |            |             |            |             |                |               |
| 607 TO 611 |                |             |            |             |            |             |            |             |                |               |
| 611 TO 615 |                |             |            |             |            |             |            |             |                |               |
| 615 TO 619 |                |             |            |             |            |             |            |             |                |               |
| 619 TO 623 |                |             |            |             |            |             |            |             |                |               |
| 623 TO 627 |                |             |            |             |            |             |            |             |                |               |
| 627 TO 631 |                |             |            |             |            |             |            |             |                |               |
| 631 TO 635 |                |             |            |             |            |             |            |             |                |               |
| 635 TO 639 |                |             |            |             |            |             |            |             |                |               |
| 639 TO 643 |                |             |            |             |            |             |            |             |                |               |
| 643 TO 647 |                |             |            |             |            |             |            |             |                |               |
| 647 TO 651 |                |             |            |             |            |             |            |             |                |               |
| 651 TO 655 |                |             |            |             |            |             |            |             |                |               |
| 655 TO 659 |                |             |            |             |            |             |            |             |                |               |
| 659 TO 663 |                |             |            |             |            |             |            |             |                |               |
| 663 TO 667 |                |             |            |             |            |             |            |             |                |               |
| 667 TO 671 |                |             |            |             |            |             |            |             |                |               |
| 671 TO 675 |                |             |            |             |            |             |            |             |                |               |
| 675 TO 679 |                |             |            |             |            |             |            |             |                |               |
| 679 TO 683 |                |             |            |             |            |             |            |             |                |               |
| 683 TO 687 |                |             |            |             |            |             |            |             |                |               |
| 687 TO 691 |                |             |            |             |            |             |            |             |                |               |
| 691 TO 695 |                |             |            |             |            |             |            |             |                |               |
| 695 TO 699 |                |             |            |             |            |             |            |             |                |               |
| 699 TO 703 |                |             |            |             |            |             |            |             |                |               |
| 703 TO 707 |                |             |            |             |            |             |            |             |                |               |
| 707 TO 711 |                |             |            |             |            |             |            |             |                |               |
| 711 TO 715 |                |             |            |             |            |             |            |             |                |               |
| 715 TO 719 |                |             |            |             |            |             |            |             |                |               |
| 719 TO 723 |                |             |            |             |            |             |            |             |                |               |
| 723 TO 727 |                |             |            |             |            |             |            |             |                |               |
| 727 TO 731 |                |             |            |             |            |             |            |             |                |               |
| 731 TO 735 |                |             |            |             |            |             |            |             |                |               |
| 735 TO 739 |                |             |            |             |            |             |            |             |                |               |
| 739 TO 743 |                |             |            |             |            |             |            |             |                |               |
| 743 TO 747 |                |             |            |             |            |             |            |             |                |               |
| 747 TO 751 |                |             |            |             |            |             |            |             |                |               |
| 751 TO 755 |                |             |            |             |            |             |            |             |                |               |
| 755 TO 759 |                |             |            |             |            |             |            |             |                |               |
| 759 TO 763 |                |             |            |             |            |             |            |             |                |               |
| 763 TO 767 |                |             |            |             |            |             |            |             |                |               |
| 767 TO 771 |                |             |            |             |            |             |            |             |                |               |
| 771 TO 775 |                |             |            |             |            |             |            |             |                |               |
| 775 TO 779 |                |             |            |             |            |             |            |             |                |               |
| 779 TO 783 |                |             |            |             |            |             |            |             |                |               |
| 783 TO 787 |                |             |            |             |            |             |            |             |                |               |
| 787 TO 791 |                |             |            |             |            |             |            |             |                |               |
| 791 TO 795 |                |             |            |             |            |             |            |             |                |               |
| 795 TO 799 |                |             |            |             |            |             |            |             |                |               |
| 799 TO 803 |                |             |            |             |            |             |            |             |                |               |
| TOTALS     | 1.5            | 9.2         | 14.3       | 11.         | 9.7        | 8.7         | 21.9       | 11.0        | 6.4            | 29215 100.0   |

NODC, Federal Building  
Asheville, N. C.

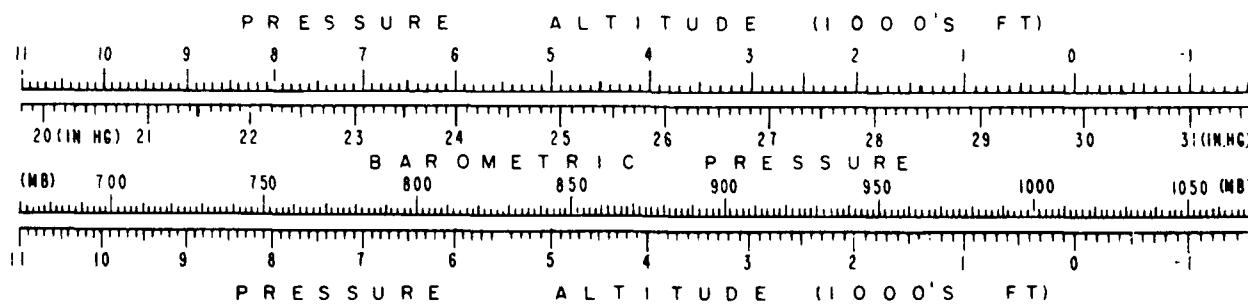
## PART F

## PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



## MEANS AND STANDARD DEVIATIONS

AVERAGE PRESSURE TIME SERIES MEAN AND STANDARD DEVIATION

| HRS/ST.   | STATION NAME |      |       |       |       |      |       |       |       |       |       |       | YEARS |
|-----------|--------------|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|
|           | JAN          | FEB. | MAR.  | APR.  | MAY   | JUN. | JUL.  | AUG.  | SEP.  | OCT.  | NOV.  | DEC.  |       |
| MEAN      | 1.01         | 1.01 | 17.01 | 15.01 | 16.01 | 1.01 | 15.01 | 15.01 | 16.01 | 16.01 | 17.01 | 16.01 | 1.01  |
| S.D.      | 0.51         | 0.51 | 6.01  | 5.01  | 5.01  | 0.51 | 3.75  | 2.65  | 2.15  | 2.65  | 2.95  | 4.75  | 0.51  |
| TOTAL OBS | 112          | 12   | 310   | 109   | 311   | 300  | 311   | 311   | 311   | 311   | 311   | 311   | 112   |
| MEAN      | 1.01         | 1.01 | 16.01 | 10.01 | 10.01 | 2.01 | 15.01 | 15.01 | 16.01 | 16.01 | 18.01 | 2.01  | 1.01  |
| S.D.      | 0.51         | 0.51 | 6.01  | 5.01  | 5.01  | 0.51 | 7.01  | 7.01  | 7.01  | 7.01  | 7.01  | 7.01  | 0.51  |
| TOTAL OBS | 112          | 12   | 310   | 109   | 310   | 300  | 310   | 310   | 310   | 310   | 310   | 310   | 112   |
| MEAN      | 1.01         | 1.01 | 16.01 | 14.01 | 15.01 | 2.01 | 15.01 | 15.01 | 16.01 | 16.01 | 17.01 | 16.01 | 1.01  |
| S.D.      | 0.51         | 0.51 | 6.01  | 5.01  | 5.01  | 0.51 | 7.01  | 7.01  | 7.01  | 7.01  | 7.01  | 7.01  | 0.51  |
| TOTAL OBS | 112          | 12   | 310   | 109   | 310   | 300  | 310   | 310   | 310   | 310   | 310   | 310   | 112   |
| MEAN      | 1.01         | 1.01 | 17.01 | 15.01 | 16.01 | 1.01 | 17.01 | 17.01 | 18.01 | 18.01 | 19.01 | 18.01 | 1.01  |
| S.D.      | 0.51         | 0.51 | 6.01  | 5.01  | 5.01  | 0.51 | 3.75  | 2.65  | 2.15  | 2.65  | 2.95  | 4.75  | 0.51  |
| TOTAL OBS | 112          | 12   | 310   | 109   | 310   | 300  | 310   | 310   | 310   | 310   | 310   | 310   | 112   |
| MEAN      | 1.01         | 1.01 | 16.01 | 10.01 | 10.01 | 2.01 | 15.01 | 15.01 | 16.01 | 16.01 | 17.01 | 16.01 | 1.01  |
| S.D.      | 0.51         | 0.51 | 6.01  | 5.01  | 5.01  | 0.51 | 7.01  | 7.01  | 7.01  | 7.01  | 7.01  | 7.01  | 0.51  |
| TOTAL OBS | 112          | 12   | 310   | 109   | 310   | 300  | 310   | 310   | 310   | 310   | 310   | 310   | 112   |
| MEAN      | 1.01         | 1.01 | 17.01 | 15.01 | 16.01 | 1.01 | 15.01 | 15.01 | 16.01 | 16.01 | 17.01 | 16.01 | 1.01  |
| S.D.      | 0.51         | 0.51 | 6.01  | 5.01  | 5.01  | 0.51 | 3.75  | 2.65  | 2.15  | 2.65  | 2.95  | 4.75  | 0.51  |
| TOTAL OBS | 112          | 12   | 310   | 109   | 310   | 300  | 310   | 310   | 310   | 310   | 310   | 310   | 112   |
| MEAN      | 1.01         | 1.01 | 16.01 | 14.01 | 15.01 | 2.01 | 15.01 | 15.01 | 16.01 | 16.01 | 17.01 | 16.01 | 1.01  |
| S.D.      | 0.51         | 0.51 | 6.01  | 5.01  | 5.01  | 0.51 | 7.01  | 7.01  | 7.01  | 7.01  | 7.01  | 7.01  | 0.51  |
| TOTAL OBS | 112          | 12   | 310   | 109   | 310   | 300  | 310   | 310   | 310   | 310   | 310   | 310   | 112   |
| MEAN      | 1.01         | 1.01 | 1.01  | 0.51  | 0.51  | 0.51 | 1.01  | 1.01  | 1.01  | 1.01  | 1.01  | 1.01  | 1.01  |
| S.D.      | 0.49         | 0.49 | 0.49  | 0.22  | 0.49  | 0.51 | 2.01  | 2.01  | 2.22  | 2.01  | 2.89  | 4.72  | 0.51  |
| TOTAL OBS | 112          | 12   | 310   | 109   | 310   | 300  | 310   | 310   | 310   | 310   | 310   | 310   | 112   |
| MEAN      | 1.01         | 1.01 | 17.01 | 15.01 | 16.01 | 1.01 | 15.01 | 15.01 | 16.01 | 16.01 | 17.01 | 16.01 | 1.01  |
| S.D.      | 0.51         | 0.51 | 6.01  | 5.01  | 5.01  | 0.51 | 3.75  | 2.65  | 2.15  | 2.65  | 2.95  | 4.75  | 0.51  |
| TOTAL OBS | 112          | 12   | 310   | 109   | 310   | 300  | 310   | 310   | 310   | 310   | 310   | 310   | 112   |
| MEAN      | 1.01         | 1.01 | 1.01  | 0.51  | 0.51  | 0.51 | 1.01  | 1.01  | 1.01  | 1.01  | 1.01  | 1.01  | 1.01  |
| S.D.      | 0.49         | 0.49 | 0.49  | 0.22  | 0.49  | 0.51 | 2.01  | 2.01  | 2.22  | 2.01  | 2.89  | 4.72  | 0.51  |
| TOTAL OBS | 112          | 12   | 310   | 109   | 310   | 300  | 310   | 310   | 310   | 310   | 310   | 310   | 112   |
| MEAN      | 1.01         | 1.01 | 1.01  | 0.51  | 0.51  | 0.51 | 1.01  | 1.01  | 1.01  | 1.01  | 1.01  | 1.01  | 1.01  |
| S.D.      | 0.49         | 0.49 | 0.49  | 0.22  | 0.49  | 0.51 | 2.01  | 2.01  | 2.22  | 2.01  | 2.89  | 4.72  | 0.51  |
| TOTAL OBS | 112          | 12   | 310   | 109   | 310   | 300  | 310   | 310   | 310   | 310   | 310   | 310   | 112   |
| MEAN      | 1.01         | 1.01 | 1.01  | 0.51  | 0.51  | 0.51 | 1.01  | 1.01  | 1.01  | 1.01  | 1.01  | 1.01  | 1.01  |
| S.D.      | 0.49         | 0.49 | 0.49  | 0.22  | 0.49  | 0.51 | 2.01  | 2.01  | 2.22  | 2.01  | 2.89  | 4.72  | 0.51  |
| TOTAL OBS | 112          | 12   | 310   | 109   | 310   | 300  | 310   | 310   | 310   | 310   | 310   | 310   | 112   |
| ALL HOURS | 1.01         | 1.01 | 17.01 | 15.01 | 16.01 | 1.01 | 15.01 | 15.01 | 16.01 | 16.01 | 17.01 | 16.01 | 1.01  |
| S.D.      | 0.51         | 0.51 | 6.01  | 5.01  | 5.01  | 0.51 | 3.75  | 2.65  | 2.15  | 2.65  | 2.95  | 4.75  | 0.51  |
| TOTAL OBS | 112          | 12   | 310   | 109   | 310   | 300  | 310   | 310   | 310   | 310   | 310   | 310   | 112   |

## MEANS AND STANDARD DEVIATIONS

4

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